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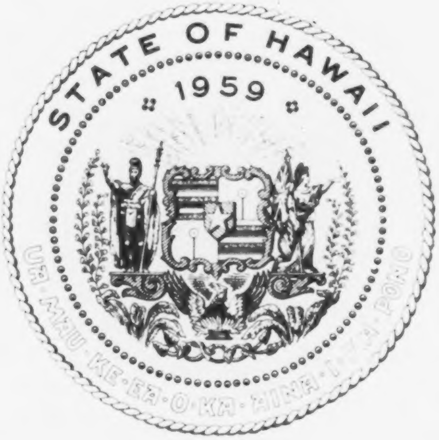

THE STATE OF HAWAII
DATA BOOK

1986

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
DECEMBER 1986

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This report was prepared by Robert C. Schmitt, State Statistician, with the assistance of Karen Yamashita, Bob Stanfield and Sharon Nishi of the Hawaii State Data Center. The camera-ready copy was typed and proofread by Judy F. Noda, Helen T. Nagafuchi, and Charlotte N. L. Chow. All of the participating staff are members of the DPED's Research and Economic Analysis Division, headed by Dr. Richard Y. P. Joun. The maps were drawn by Stewart A. Wastell, illustrator in the DPED's Planning Division. Editing and printing arrangements were handled by the DPED's Information Office.

Copies of this report may be obtained for $5.00 each from the Information Office on the 7th floor of the Kamamalu Building, 250 South King Street, Honolulu, or ordered from out of State by sending $15.00 per copy (postpaid) to the DPED Information Office, P. O. Box 2359, Honolulu, Hawaii 96804.

INTRODUCTION

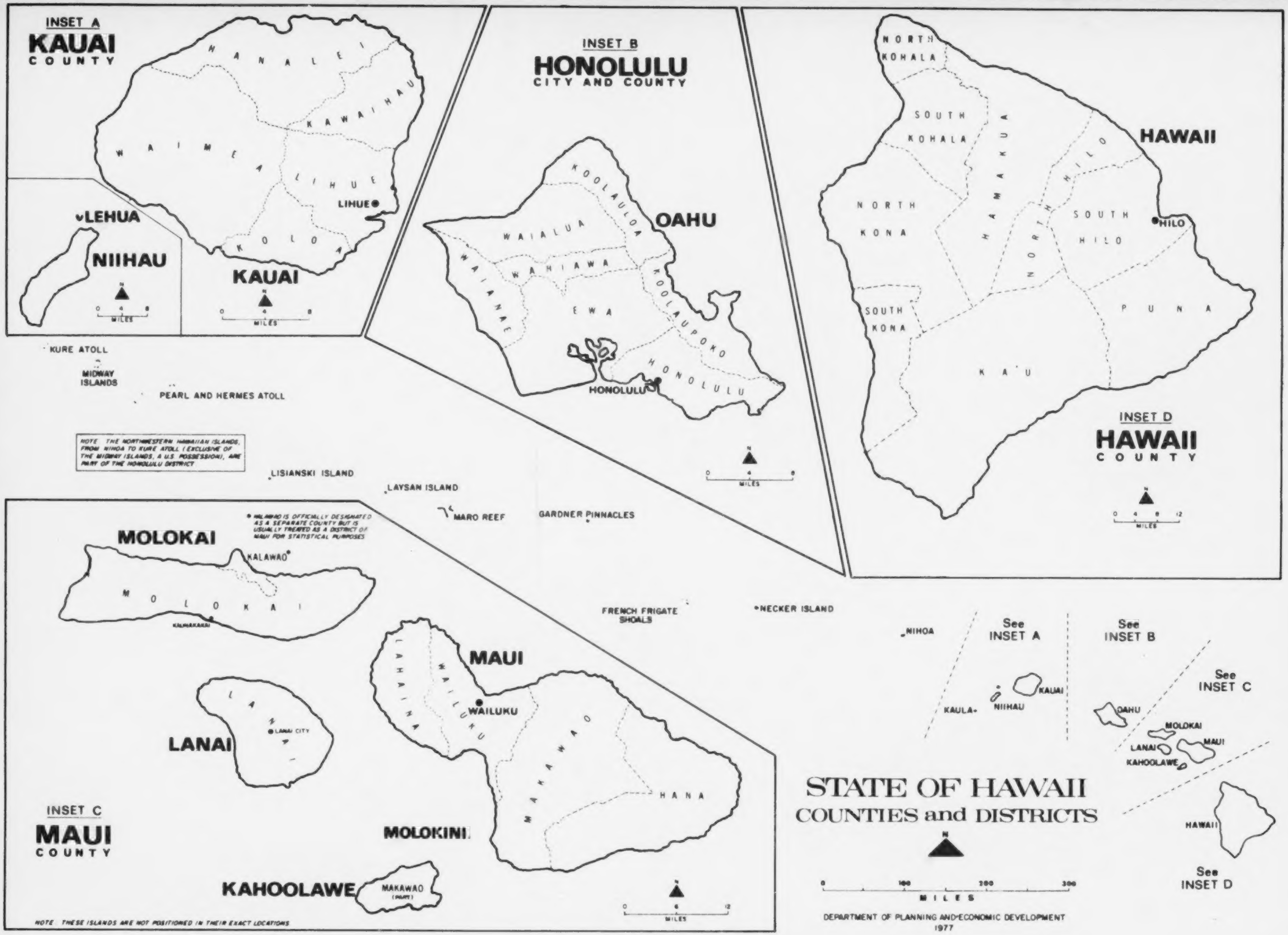
The State of Hawaii Data Book: A Statistical Abstract is the standard official summary of statistics on the social, economic and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as a convenient volume for statistical reference and as a guide to other statistical publications and sources.

The present volume, containing statistics available late in 1986, is the twentieth such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. Most of them are now out of print, but copies can be found in many high school, university and public libraries in Hawaii.

The Data Book follows closely the organization and format of the U.S. Abstract, to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for Counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

Many Federal, State, County and private organizations cooperated with our Research and Economic Analysis Division in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged. Within our department, we would also like to acknowledge the DPED Library and Hawaii State Data Center, which were especially helpful in preparing this volume.



STATE OF HAWAII
COUNTIES and DISTRICTS

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

NOTE: THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT

* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES

NOTE: THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS

INSET A
KAUAI
COUNTY
HANALEI
KAWAIHAU
WAIMEA
LIHUE
KOLOA
LIHUE
KAUAI
LEHUA
NIIHAU
N
0 4 8
MILES
N
0 4 8
MILES
INSET B
HONOLULU
CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
WAHIAWA
WAIANAE
EWA
KOOLAUPOKO
HONOLULU
HONOLULU
N
0 4 8
MILES
HAWAII
NORTH KOHALA
SOUTH KOHALA
HAMAKUA
NORTH HILO
SOUTH HILO
HILO
NORTH KONA
SOUTH KONA
PUNA
KA'U
INSET D
HAWAII
COUNTY
N
0 4 8 12
MILES
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
MOLOKAI
KALAWAO*
MOLOKAI
KAUNAKAKAI
MAUI
LAHAINA
WAILUKU
WAILUKU
MAKAWAO
HANA
LANAI
LANAI
LANAI CITY
MOLOKINI
KAHOOLAWE
MAKAWAO (PART)
INSET C
MAUI
COUNTY
N
0 6 12
MILES
See INSET A
See INSET B
See INSET C
See INSET D
KAULA
NIIHAU
KAUAI
OAHU
MOLOKAI
MAUI
LANAI
KAHOOLAWE
HAWAII
N
0 100 200 300
MILES

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items, figures or symbols within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

A dash (-) represents zero in references to absolute values. In rates and percentages, a zero (0) is used.

In many tables, details will not add to the totals shown because of rounding.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions

1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, *Atlas of Hawaii*, 2nd edition (1983), pp. 218-219.

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

Provisional estimates for 1985 indicate a resident population of 1,054,000. This total is well above the 1980 census count of 964,691 and the earlier counts of 423,000 in 1940, 154,000 in 1900, and 84,000 in 1850. These censuses and estimates include members of the armed forces stationed in Hawaii and their local dependents, a group making up 11.5 percent of the resident total when last surveyed. The 1985 de facto population -- which included 117,000 visitors present on an average day in that year but excluded 19,000 residents temporarily absent -- was 1,152,000. More than three-fourths of the 1985 de facto total was on Oahu, giving that island a density of 1,451 persons per square mile. The population of the State is relatively young -- the median age in 1985 was 30 years -- and racially diversified. The major unmixed groups, based on a 1985 sample survey, were Caucasians (27 percent of the non-barracks, non-institutional population) and Japanese (23 percent). In addition, 28 percent were of mixed race, primarily part Hawaiian. There were approximately 330,000 households in the State in 1985, with an average household size of 3.07. Migration has been a major factor in the growth of the population: between 1980 and 1985, there was a net in-migration (excluding military personnel and dependents) of 40,000, accounting for 44 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1985 exceeded 7,800, mostly from the Philippines.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the ongoing series on visitors present and residents absent maintained by the Hawaii Visitors Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. The Department of Planning and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Other annual reports distributed by DPED contain population estimates for sub-county areas. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in Sections 1 and 3 of Statistical Abstract of the United States: 1986.

Table 1.-- POPULATION: FIRST SETTLEMENT TO 1986

[Unofficial estimates for 300-1823, missionary censuses for 1831-1832 and 1835-1836, Hawaiian government censuses for 1850-1896, U.S. government censuses for 1900-1940 and 1950-1980, and official intercensal and postcensal estimates for 1944 and 1986. Estimates prior to 1823 are highly speculative. Data through 1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, and include armed forces stationed or homeported in Hawaii]

Date	Population	Percent change 1/
1st settlement 2/	100	...
600	1,000	(NA)
1100	20,000	0.6
1650	200,000	0.4
1778 3/	250,000	0.2
1800	180,000	-1.5
1823	140,000	-1.1
1831-1832	130,313	-0.8
1835-1836	108,579	-4.6
1850: Jan.	84,165	-1.8
1853: Dec. 26	73,138	-3.5
1860: Dec. 24	69,800	-0.7
1866: Dec. 7	62,959	-1.7
1872: Dec. 27	56,897	-1.7
1878: Dec. 27	57,985	0.3
1884: Dec. 27	80,578	5.5
1890: Dec. 28	89,990	1.8
1896: Sept. 27	109,020	3.3
1900: June 1	154,001	9.4
1910: Apr. 15	191,874	2.2
1920: Jan. 1	255,881	3.0
1930: Apr. 1	368,300	3.6
1940: Apr. 1	422,770	1.4
1944: July 1	858,945	16.7
1950: Apr. 1	499,794	-9.4
1960: Apr. 1	632,772	2.4
1970: Apr. 1	769,913	2.0
1980: Apr. 1	964,691	2.3
1986: July 1	1,062,344	1.5

NA Not available.

1/ Annual rate since the previous estimate or census, based on the formula for continuous compounding.

2/ Thought to have occurred between A.D. 300 and 600; see Kirch, p. 298.

3/ Other estimates of precontact population have ranged from 100,000 to more than 800,000, although most have been between 200,000 and 400,000.

Source: Patrick Vinton Kirch, Feathered Gods and Fishhooks (University of Hawaii Press, 1985), pp. 286, 298, 302, and 304; Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 7, 8, and 10; U.S. Bureau of the Census, 1980 Census of Population, Number of Inhabitants, Hawaii, PC80-1-A13 (October 1981), table 1; and U.S. Bureau of the Census, 1986 estimate provided December 22, 1986.

Table 2.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1986

[Excludes visitors present but includes residents temporarily absent]

Year		Total resident population	Armed forces 1/	Civilian population		
				All civilians	Military dependents 2/	Not military dependents
1970:	April 1 .	769,913	55,142	714,771	61,858	652,913
	July 1 ..	771,600	53,800	717,800	57,800	660,100
1971:	July 1 ..	801,600	50,800	750,800	62,200	688,700
1972:	July 1 ..	828,300	52,000	776,400	66,200	710,100
1973:	July 1 ..	851,600	58,100	793,500	70,300	723,200
1974:	July 1 ..	868,000	57,500	810,500	68,300	742,100
1975:	July 1 ..	886,200	58,800	827,400	63,700	763,700
1976:	July 1 ..	904,200	57,800	846,400	67,000	779,400
1977:	July 1 ..	918,300	56,500	861,800	65,000	796,800
1978:	July 1 ..	931,600	58,300	873,300	61,100	812,200
1979:	July 1 ..	953,300	57,900	895,400	64,500	830,900
1980:	April 1 .	964,691	57,056	907,635	64,023	843,612
	July 1 ..	968,900	57,900	911,000	64,100	846,900
1981:	July 1 ..	980,200	56,600	923,600	64,300	859,300
1982:	July 1 ..	997,600	54,900	942,700	66,700	876,000
1983:	July 1 ..	1,018,600	55,200	963,500	66,300	897,200
1984:	July 1 ..	1,036,000	57,300	978,700	67,100	911,600
1985:	July 1 ..	1,051,500	56,400	995,100	64,300	930,800
1986:	July 1 3/	1,062,300	58,100	1,004,200	66,200	938,000

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

2/ Dependents living in Hawaii, regardless of location of family head.

3/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 1, and Provisional Estimates of the Population of Hawaii, 1986 (Statistical Report 195, January 2, 1987), table 2.

Table 3.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1986

Year	Resident population 1/		De facto population 3/		De facto-resident ratio 4/
	Total	Temporarily absent 2/	Total	Visitors present 2/	
1970: April 1 ..	769,913	10,300	796,500	36,900	1,035
July 1 ...	771,600	10,000	798,600	36,900	1,035
1971: July 1 ...	801,600	9,400	833,100	40,900	1,039
1972: July 1 ...	828,300	8,600	869,800	50,100	1,050
1973: July 1 ...	851,600	9,800	901,300	59,600	1,058
1974: July 1 ...	868,000	7,800	923,700	63,500	1,064
1975: July 1 ...	886,200	9,000	943,500	66,300	1,065
1976: July 1 ...	904,200	9,400	970,300	75,500	1,073
1977: July 1 ...	918,300	9,000	992,300	83,000	1,081
1978: July 1 ...	931,600	9,300	1,014,300	92,000	1,089
1979: July 1 ...	953,300	9,300	1,042,700	98,700	1,094
1980: April 1 ..	964,691	9,600	1,052,700	97,600	1,091
July 1 ...	968,900	9,600	1,055,800	96,500	1,090
1981: July 1 ...	980,200	11,600	1,064,500	96,000	1,086
1982: July 1 ...	997,600	14,500	1,088,300	105,300	1,091
1983: July 1 ...	1,018,600	11,500	1,115,200	108,000	1,095
1984: July 1 ...	1,036,000	16,100	1,138,600	118,700	1,099
1985: July 1 ...	1,051,500	18,600	1,149,600	116,700	1,093
1986: July 1 5/	1,062,300	18,400	1,176,700	132,800	1,108

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

2/ Averages for 12-month periods centered on the estimate or census dates.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

4/ De facto population per 1,000 resident population.

5/ Provisional estimate.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 2, and Provisional Estimates of the Population of Hawaii, 1986 (Statistical Report 195, January 2, 1987), table 3.

Table 4.-- RESIDENT POPULATION OF ISLANDS: 1960 TO 1985

[Census counts as of April 1, 1960, 1970, and 1980; provisional estimates as of July 1, 1985]

Island	1960	1970	1980	1985
State of Hawaii	632,772	769,913	964,691	1,053,900
Hawaii	61,332	63,468	92,053	109,200
Kahoolawe	-	-	-	-
Maui 1/	35,717	38,691	62,823	76,600
Lanai	2,115	2,204	2,119	2,200
Molokai	5,023	5,261	6,049	6,500
Oahu 2/	500,394	630,497	762,534	814,600
Kauai	27,922	29,524	38,856	44,600
Niihau 3/	254	237	226	180
Northwestern Hawaiian Islands ..	15	31	31	(NA)
French Frigate Shoals	(NA)	(NA)	4	(NA)
Laysan Island	(NA)	(NA)	5	(NA)
Kure Atoll	(NA)	(NA)	22	24
Other islands 4/	(NA)	(NA)	-	(NA)
Midway Islands 5/	2,356	2,220	453	(NA)
Johnston Atoll 5/	156	1,007	327	(NA)
Palmyra Atoll 5/	-	-	-	(NA)

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Sand Island (56 in 1970, 60 in 1980), Mokauea Island (12 in 1970, 11 in 1980), Ford Island (798 in 1970, 522 in 1980), and Moku o Loe (uninhabited in 1970, 16 in 1980). The combined total for Sand Island and Mokauea Island in 1960 was 36. These offshore islands were not reported separately in other years.

3/ Including Lehua and Kaula, uninhabited.

4/ Nihoa, Necker Island, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll.

5/ Not part of the State of Hawaii.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics, 1960-1980; Hawaii State Department of Planning and Economic Development, Statistical Report 190 (July 2, 1986), tables 5 and 6, and this volume, table 7.

Table 5.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1985

[Based on place of usual residence. Includes armed forces stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1 ...	769,913	630,528	63,468	29,761	46,156
July 1	771,600	631,600	63,800	29,800	46,500
1971: July 1	801,600	654,600	67,000	30,900	49,100
1972: July 1	828,300	674,900	70,000	31,900	51,500
1973: July 1	851,600	691,400	73,900	32,900	53,400
1974: July 1	868,000	707,600	74,000	32,600	53,800
1975: July 1	886,200	718,600	77,400	33,400	56,800
1976: July 1	904,200	728,300	80,700	34,900	60,300
1977: July 1	918,300	737,000	82,800	35,500	63,000
1978: July 1	931,600	742,600	85,900	36,800	66,200
1979: July 1	953,300	756,000	89,400	38,100	69,700
1980: April 1 ...	964,691	762,565	92,053	39,082	70,991
July 1	968,900	764,800	93,000	39,400	71,600
1981: July 1 2/ .	980,600	768,800	97,000	40,600	74,100
1982: July 1 2/ .	997,800	778,700	100,200	41,900	77,000
1983: July 1 2/ .	1,019,500	793,400	103,000	43,100	80,000
1984: July 1 2/ .	1,037,200	802,400	107,200	44,200	83,500
1985: July 1 2/ .	1,053,900	814,600	109,200	44,800	85,300

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates. For revised State totals, see table 2.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 3, and The Population of Hawaii, 1970-1984: Technical Supplement (Statistical Memorandum 85-3, May 8, 1985), table 1, as revised; and The Population of Hawaii, 1980-1985 (Statistical Report 190, July 2, 1986), table 5.

Table 6.-- DE FACTO POPULATION, 1970 TO 1985, AND DENSITY, 1985, BY COUNTIES

[Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1	796,500	650,700	65,700	31,800	48,400
July 1	798,600	650,200	66,600	32,300	49,400
1971: July 1	833,100	675,300	70,600	34,000	53,100
1972: July 1	869,800	702,200	74,500	35,800	57,200
1973: July 1	901,300	726,400	78,700	36,900	59,400
1974: July 1	923,700	746,500	79,500	36,800	60,900
1975: July 1	943,500	757,100	83,300	38,100	65,100
1976: July 1	970,300	772,900	86,800	40,100	70,500
1977: July 1	992,300	786,800	89,300	41,300	74,900
1978: July 1	1,014,300	797,200	93,400	43,600	80,100
1979: July 1	1,042,700	816,000	96,700	45,200	84,800
1980: April 1	1,052,700	822,000	98,700	46,100	85,900
July 1	1,055,800	823,600	99,500	46,400	86,400
1981: July 1 2/	1,064,900	825,900	102,500	47,500	89,000
1982: July 1 2/	1,088,600	840,300	105,700	48,600	94,100
1983: July 1 2/	1,116,000	850,600	110,700	50,800	103,900
1984: July 1 2/	1,139,800	856,900	113,300	54,600	115,000
1985: July 1 2/	1,152,000	865,100	115,800	55,600	115,500
DENSITY: 1985					
Per square mile	179.3	1,450.8	28.7	89.8	98.3
Per square km.	69.2	560.2	11.1	34.7	38.0

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates. For revised State totals, see table 3.

Source: Hawaii State Department of Planning and Economic Development, Intercensal Population Estimates for Hawaii, 1940-1980 (Statistical Report 172, February 1, 1985), table 10; The Population of Hawaii, 1970-1984: Technical Supplement (Statistical Memorandum 85-3, May 8, 1985), table 1 as revised; and The Population of Hawaii, 1980-1985 (Statistical Report 190, July 2, 1986), tables 5 and 7.

Table 7.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1970, 1980, AND 1985

County and district (see map on p. 6)	April 1, 1970	April 1, 1980	July 1, 1985	Percent change	
				1970 to 1980	1980 to 1985
State total	769,913	964,691	1,053,884	25.3	9.2
Hawaii County	63,468	92,053	109,159	45.0	18.6
Puna	5,154	11,751	17,522	128.0	49.1
South Hilo	33,915	42,278	44,621	24.7	5.5
North Hilo	1,881	1,679	1,525	-10.7	-9.2
Hamakua	4,648	5,128	5,288	10.3	3.1
North Kohala	3,326	3,249	3,451	-2.3	6.2
South Kohala	2,310	4,607	6,310	99.4	37.0
North Kona	4,832	13,748	18,962	184.5	37.9
South Kona	4,004	5,914	6,937	47.7	17.3
Ka'u	3,398	3,699	4,543	8.9	22.8
Maui County 1/	46,156	70,991	85,303	53.8	20.2
Hana	969	1,423	1,654	46.9	16.2
Makawao	9,979	19,005	22,129	90.4	16.4
Wailuku	22,219	32,111	39,270	44.5	22.3
Lahaina	5,524	10,284	13,577	86.2	32.0
Lanai	2,204	2,119	2,178	-3.9	2.8
Molokai	5,089	5,905	6,354	16.0	7.6
Kalawao	172	144	141	-16.3	-2.1
City & Co. of Honolulu	630,528	762,565	814,642	20.9	6.8
Honolulu	324,871	365,048	381,676	12.4	4.6
Koolaupoko	92,219	109,373	114,600	18.6	4.8
Koolauloa	10,562	14,195	16,367	34.9	15.3
Waialua	9,171	9,849	10,922	7.4	10.9
Wahiawa	37,329	41,562	43,099	11.3	3.7
Waianae	24,077	31,487	34,029	30.8	8.1
Ewa	132,299	191,051	213,949	44.4	12.0
Kauai County	29,761	39,082	44,781	31.3	14.6
Hanalei	1,182	2,668	4,327	125.7	62.2
Kawaihau	7,393	10,497	12,104	42.0	15.3
Lihue	6,766	8,590	9,219	27.0	7.3
Koloa	6,851	8,734	10,520	27.5	20.4
Waimea	7,569	8,593	8,611	13.5	.2

1/ Including Kalawao County.

Source: U.S. Bureau of the Census, 1980 Census of Population, Number of Inhabitants, Hawaii, PC80-1-A13 (October 1981), table 4; Hawaii State Department of Planning and Economic Development, unpublished 1985 estimates.

Table 8 .-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980

[This table presents data for the 101 "census designated places" defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

Island and place 1/	Resident population	Island and place 1/	Resident population
Hawaii	92,053	Maui and Molokini	62,823
Captain Cook	2,008	Haiku	619
Hakalau	250	Haliimaile	741
Hawi	795	Hana	643
Hilo	35,269	Honokahua	309
Holualoa	1,243	Kaanapali	541
Honokaa	1,936	Kahului	12,978
Honomu	559	Kihei	5,644
Kailua	4,751	Lahaina	6,095
Kainaliu	512	Lower Paia	1,500
Kapaau	612	Makawao	2,900
Keaau	775	Napili-Honokowai	2,446
Kealakekua	1,033	Paia	193
Kukuihaele	332	Pauwela	468
Laupahoehoe	500	Pukalani	3,950
Makapala	186	Puunene	572
Mountain View	540	Waihee	413
Naalehu	1,168	Waikapu	698
Ookala	401	Wailea	1,124
Paauilo	755	Wailuku	10,260
Pahala	1,619	Remainder of island ...	10,729
Pahoa	923		
Papaaloa	264	Kahoolawe	-
Papaikou	1,567		
Paukaa	544	Lanai	2,119
Puako	257	Lanai City	2,092
Waimea	1,179	Remainder of island ...	27
Wainaku	1,045		
Remainder of island ..	31,030		

Continued on next page.

Table 8 .-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980 -- Con.

Island and place 1/	Resident population
Molokai	6,049
Kaunakakai	2,231
Kualapuu	502
Maunaloa	633
Remainder of island ..	2,683
Oahu (including Northwestern Hawaiian Islands)	762,565
Ahuimanu	6,238
Aiea	32,879
Barbers Point Housing.	1,373
Ewa	2,637
Ewa Beach	14,369
Haleiwa	2,412
Hauula	2,997
Heeia	5,432
Hickam Housing	4,425
Honolulu total	365,048
Oahu part	365,017
Northwestern Hawaiian Islands .	31
Iroquois Point	3,915
Kaaawa	959
Kahaluu	2,925
Kahuku	935
Kailua	35,812
Kaneohe	29,919
Laie	4,643
Maili	5,026
Makaha	6,582
Makakilo City	7,691
Maunawili	5,239
Mililani Town	21,365
Mokapu	11,615
Oahu (con.):	
Nanakuli	8,185
Pearl City	42,575
Schofield Barracks	18,851
Wahiawa	16,911
Waialua	4,051
Waianae	7,941
Waimanalo	3,562
Waimanalo Beach	4,161
Waipahu	29,139
Waipio Acres	4,091
Whitmore Village	2,318
Remainder of island ...	46,344
Kauai	38,856
Anahola	915
Eleele	580
Hanalei	483
Hanamaulu	3,227
Hanapepe	1,417
Kalaheo	2,500
Kapaa	4,467
Kaumakani	888
Kekaha	3,260
Kilauea	895
Koloa	1,457
Lihue	4,000
Poipu	685
Princeville	500
Puhi	991
Wailua	1,587
Waimea	1,569
Remainder of island ...	9,435
Niihau, Lehua and Kaula .	226

1/ For boundaries of places, see Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980).

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4, and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

Table 9.-- POPULATION RANKING OF HONOLULU: 1980 TO 1985

Comparison 1/	Areas ranked		Honolulu ranking		
	Year	Number	1980	1984	1985
Honolulu MSA: 2/					
Among all MSAs and PMSAs	1985	332	55	56	58
Among all MSAs and CMSAs	1985	281	47	48	49
City and County of Honolulu: 3/					
Among all counties	1985	3,137	43	40	41
Among all municipalities 4/	1980	19,097	12	11	(NA)
Honolulu CDP: 5/					
Among all incorp. places and CDPs .	1980	22,529	36	37	(NA)

NA Not available.

1/ MSA, Metropolitan Statistical Area; PMSA, Primary MSA; CMSA, Consolidated MSA; CDP, Census Designated Place, that is, an unincorporated urban place.

2/ The Honolulu MSA consists of the City and County of Honolulu, comprising Oahu and the minor islets (except Midway) northwest of Niihau.

3/ The City and County of Honolulu consists of Oahu and the minor islets (except Midway) northwest of Niihau.

4/ Areas ranked in 1980 included all boroughs, cities, towns, villages, and other.

5/ The Honolulu CDP consists of Honolulu District, comprising the area between Red Hill and Makapuu Point, south and southwest of the crest of the Koolau Mountains, and the minor islets (except Midway) northwest of Niihau.

Source: U.S. Bureau of the Census, letter dated December 17, 1986.

Table 10.-- POPULATION CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

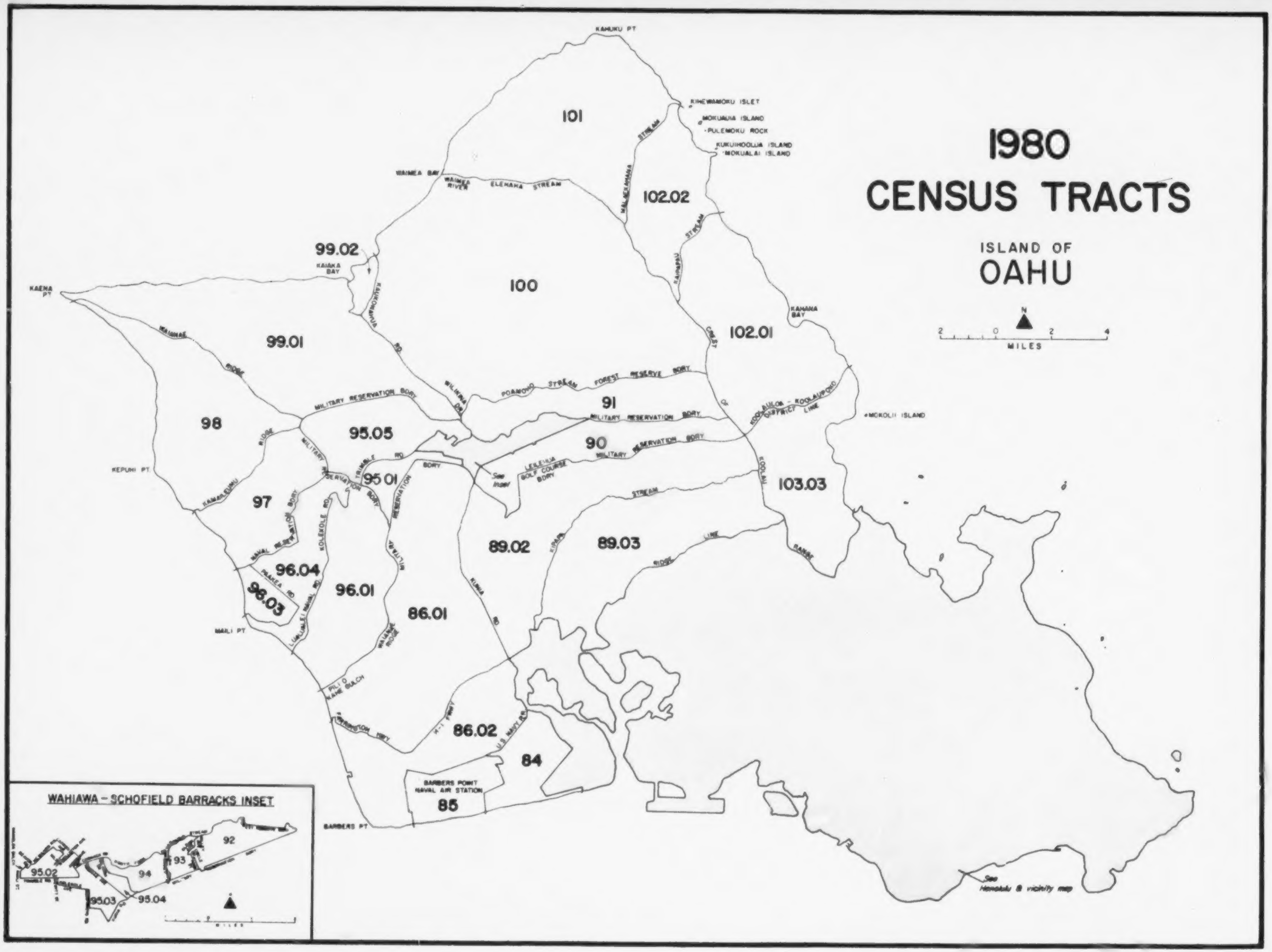
Neighborhood (see maps on pp. 559-560)	Resident population				Households	
	Number	Median age (years)	Percent white	Percent high school grad. 1/	Number	Median income in 1979 (dollars)
Oahu total	762,534	28.1	33.1	75.6	230,214	21,077
1 Hawaii Kai	25,603	31.5	46.5	90.9	7,518	34,928
2 Kuliouou	14,172	37.1	34.8	84.6	4,316	37,986
3 Waialae-Kahala ...	11,474	36.8	49.0	91.2	3,882	37,385
4 Kaimuki	19,603	38.0	20.5	74.7	6,314	26,260
5 Diamond Head/ Kapahulu	21,191	34.9	25.2	74.1	7,853	20,453
6 Palolo	14,110	32.1	13.3	64.9	4,092	21,457
7 Manoa	22,605	29.3	26.1	84.4	6,536	27,347
8 McCully/Moiliili .	26,644	31.4	21.5	77.8	12,188	16,082
9 Waikiki	17,384	39.9	64.4	84.0	9,852	14,562
10 Makiki/Tantalus ..	28,695	32.3	35.6	82.8	14,050	17,179
11 Ala Moana/Kakaako	10,032	40.1	33.5	74.4	5,505	14,842
12 Nuuanu/Punchbowl .	16,166	35.3	20.0	70.3	5,361	22,714
13 Downtown	8,674	34.4	32.3	70.2	4,406	14,631
14 Liliha/Kapalama ..	21,068	37.2	11.4	64.8	6,429	22,107
15 Kalihi/Palama	40,144	28.5	8.6	47.7	10,837	14,280
16 Kalihi Valley	17,613	28.4	10.2	53.7	3,885	23,513
17 Moanalua	12,948	26.3	32.4	81.9	3,400	21,532
18 Aliamanu/Salt Lake	31,199	24.9	40.9	80.5	9,290	18,221
19 Airport	28,436	22.3	75.8	89.6	5,416	14,149
20 Aiea	30,084	28.5	30.2	76.4	8,925	25,393
21 Pearl City	42,577	27.6	18.8	81.9	11,140	29,345
22 Waipahu	33,927	25.0	14.9	63.0	8,261	23,865
23 Ewa	35,585	23.5	42.7	73.9	8,988	19,458
24 Waianae Coast	31,487	22.5	22.8	59.3	7,964	15,596
25 Mililani/Waipio ..	26,134	26.4	36.6	89.1	7,801	26,338
26 Wahiawa	41,562	22.9	44.7	75.0	10,271	13,343
27 North Shore	13,061	26.6	36.9	67.8	3,899	17,873
28 Koolauloa	10,983	22.5	28.7	72.7	2,687	15,426
29 Kahaluu	11,782	27.6	33.8	84.0	3,360	24,984
30 Kaneohe	35,553	28.6	32.1	80.0	9,698	28,652
31 Kailua	41,291	29.5	56.8	83.3	12,099	28,546
32 Waimanalo	9,132	24.6	21.7	59.2	2,137	19,407
33 Mokapu	11,615	21.3	74.8	91.4	1,854	13,814

1/ Persons 25 years old and over.

Source: U.S. Bureau of the Census, *1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii*, PHC80-SP1-13 (1983).

1980
CENSUS TRACTS

ISLAND OF
OAHU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ELEHAHA STREAM
MALAEKAHANA STREAM
KAIPAPAU STREAM
KAIAKA BAY
KAENA PT
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NAVAL RESERVATION BDRY
PAKEA RD
LUALUALEI NAVAL RD
WAIANAE RIDGE
KUNIA RD
KIPAPA STREAM
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RANGE
MAILI PT
PILI O KAHE GULCH
FARRINGTON HWY
H-1 FWY
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BARBERS POINT NAVAL AIR STATION
BARBERS PT
See Honolulu & vicinity map
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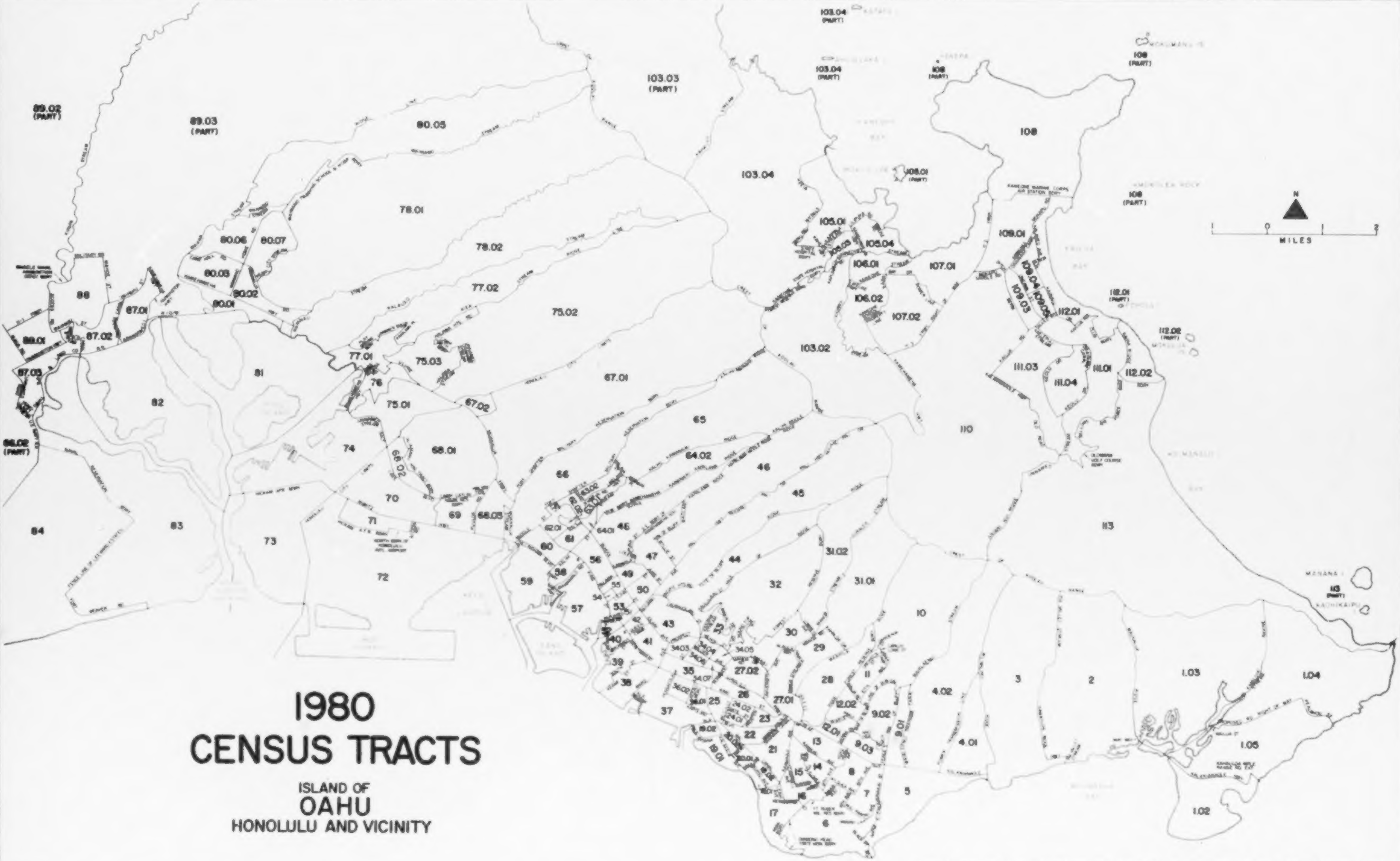
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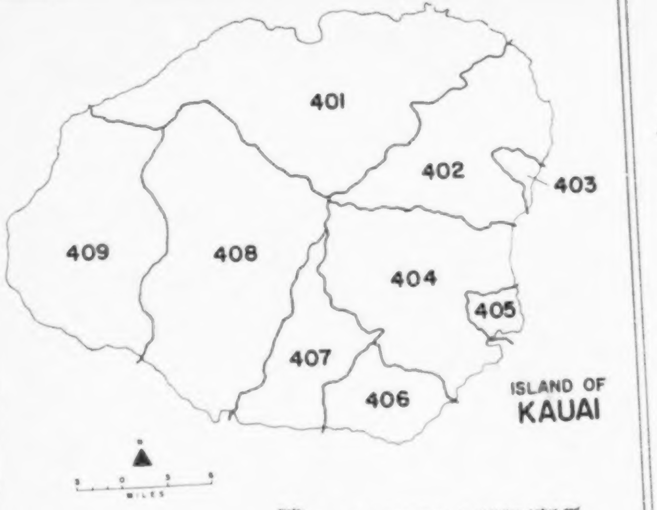
MOKUMANU IS.
MOKOLII I.

1980
CENSUS TRACTS
ISLAND OF
OAHU
HONOLULU AND VICINITY

Note: Census Tract 114 (not shown) consists of the Northwestern Hawaiian Islands, exclusive of Midway islands.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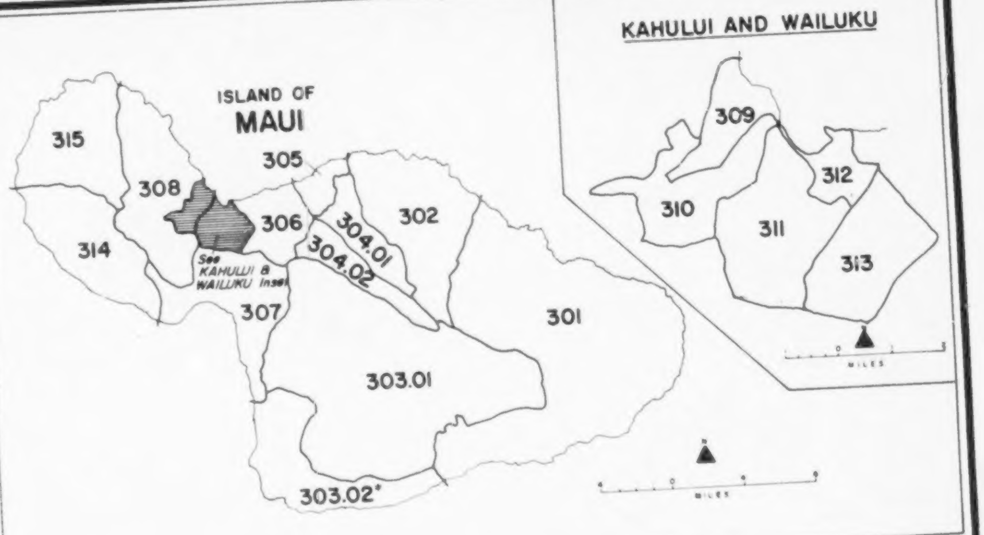
Note
Census Tract 410 includes the islands of Niihau, Lehua and Kaula (not shown)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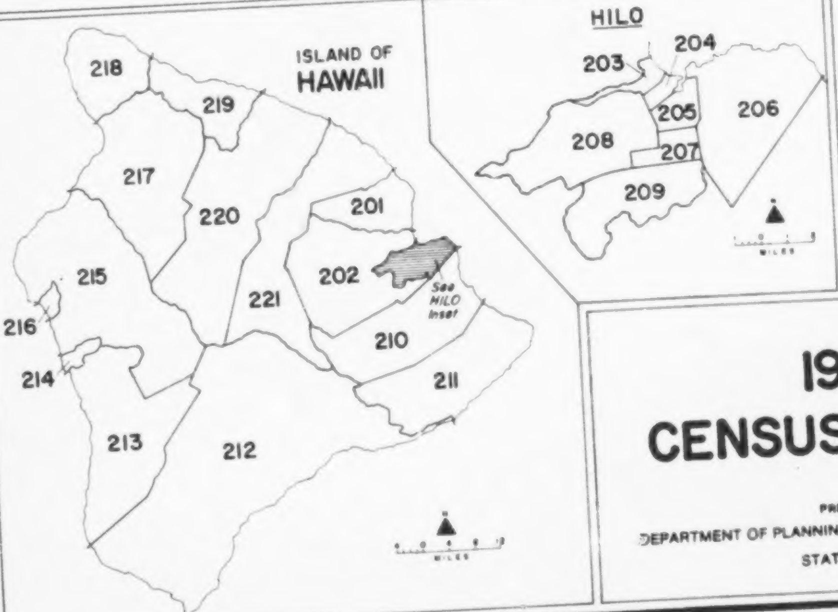
* includes the islands of Kahoolawe and Molokini (not shown)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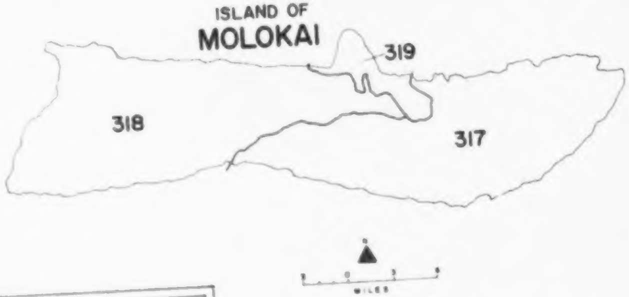
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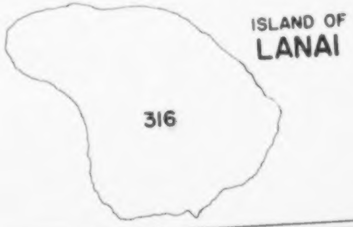
ISLAND OF
LANAI
316

1980
CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

Table 11.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
County total	381,888	222,895	630,528	762,565	805,300	230,214
Honolulu District	57,039	33,403	324,871	365,048	379,599	127,139
1.02	778	776	1,915	2,067	2,067	599
1.03	2,989	1,439	3,243	10,784	11,883	3,462
1.04 (1.01 pt.) ...	2,264	1,213	1,834	7,202	7,634	1,947
1.05 (1.01 pt.) ...	1,386	1,276	5,580	5,550	5,490	1,510
2	2,711	626	5,123	4,970	5,421	1,485
3	2,301	512	6,485	5,518	5,521	1,696
4.01	582	360	1,571	2,734	2,920	804
4.02	1,618	282	2,898	3,438	3,758	1,064
5	698	694	5,253	4,711	4,664	1,668
6	790	783	2,025	1,654	1,690	556
7	235	235	3,794	3,350	3,338	1,022
8	221	221	4,599	4,137	4,159	1,288
9.01	219	106	2,773	2,621	2,621	925
9.02	332	294	4,392	3,912	3,973	1,324
9.03	153	153	3,514	2,932	2,950	1,005
10	2,202	352	3,650	3,213	3,259	924
11	190	167	4,586	4,077	4,106	1,025
12.01	138	133	3,657	3,227	3,296	1,052
12.02	158	146	4,231	3,593	3,626	1,091
13	224	224	5,146	4,642	4,559	1,569
14	119	119	2,990	2,797	2,838	846
15	138	138	4,345	3,857	3,897	1,267
16	148	148	4,783	4,617	4,601	1,475
17	348	348	2,559	2,492	2,619	1,358
18.01	40	40	1,286	1,140	1,618	668
18.02	69	69	2,774	3,259	2,870	1,733
19.01	316	311	1,111	1,412	2,876	868
19.02	55	55	3,368	5,413	6,124	3,064
20.01	73	73	2,186	2,560	4,678	1,445
20.02	65	65	2,399	3,600	4,024	2,074
21	279	279	3,347	3,619	3,688	1,558
22	127	127	3,796	6,782	7,154	3,148
23	90	90	4,195	5,073	5,012	2,410
24.01	40	39	3,060	2,912	3,050	1,293
24.02	63	63	2,818	3,042	3,061	1,395
25	104	101	4,242	4,016	3,746	1,885

Continued on next page.

Table 11.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Honolulu District, con.						
26	167	167	5,163	4,819	4,809	2,057
27.01	366	364	3,675	5,291	5,305	693
27.02	253	253	5,039	5,344	5,355	2,111
28	582	327	4,316	3,679	4,056	1,202
29	280	172	1,591	1,583	1,622	448
30	380	351	4,966	4,491	4,615	1,611
31.01	1,302	433	4,403	3,923	4,060	1,150
31.02	989	322	4,030	3,716	3,745	1,106
32	1,425	352	1,218	1,132	1,151	351
33	148	141	1,145	1,069	1,097	310
34.03	85	84	4,267	5,074	5,178	2,564
34.04 (34.01 pt.)	65	64	3,114	4,511	4,576	2,203
34.05 (34.01 pt.)	42	42	2,771	3,014	3,027	1,689
34.06 (34.02 pt.)	60	60	4,010	5,238	5,311	2,553
34.07 (34.02 pt.)	29	29	751	1,033	981	618
35	181	181	4,308	4,399	4,379	2,198
36.01	86	86	2,916	4,326	4,961	2,590
36.02	90	90	2,654	2,661	2,679	1,246
37	450	450	1,349	2,477	2,427	1,401
38	287	287	523	387	355	155
38.99 3/	...	...	314	-	(NA)	-
39	291	291	263	115	101	73
39.99 3/	...	...	134	108	108	-
40	70	70	100	820	1,235	498
41	165	165	4,097	4,320	4,274	2,240
42	63	63	1,162	2,637	2,637	1,524
43	323	275	5,628	5,339	5,302	2,163
44	867	243	6,142	5,274	5,290	1,486
45	1,955	437	4,780	5,042	5,338	1,800
46	1,751	458	4,377	3,928	3,933	1,187
47	343	342	5,500	4,893	4,994	1,495
48	831	510	6,608	6,146	6,196	1,720
49	99	98	3,292	3,165	3,136	982
50	130	130	3,973	4,075	4,254	1,368
51	46	46	-	1,611	2,057	759
52	41	41	1,405	858	1,323	248
53	84	84	482	4,529	4,529	1,506
54	22	22	1,862	1,718	1,718	409
55	53	53	1,975	2,106	2,098	636

Continued on next page.

Table 11.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Honolulu District, con.						
56	227	226	5,768	5,794	6,099	1,550
57	1,123	1,119	2,615	1,556	1,450	752
57.99 3/	...	...	134	592	592	-
58	123	123	3,163	3,524	3,488	1,030
59	566	565	4,388	3,854	3,652	1,055
59.99 3/	...	...	61	21	21	-
60	176	171	6,711	5,663	5,493	1,352
61	113	111	3,262	3,381	3,422	773
62.01	130	129	4,295	4,741	4,695	1,165
62.02	24	21	2,523	2,665	2,665	609
63.01	171	167	3,713	3,315	3,318	732
63.02	123	109	3,083	2,945	2,984	549
64.01	46	45	1,400	1,737	1,801	348
64.02	646	147	5,280	5,579	5,577	1,321
65	2,311	311	4,011	4,037	4,055	935
66	1,418	1,418	3,424	2,716	2,716	696
67.01	4,726	1,253	7,502	7,477	7,598	1,851
67.02	105	105	2,317	2,755	2,755	853
68.01	1,273	1,102	2,968	20,689	23,451	6,568
68.02	163	163	4,532	4,890	5,042	1,176
68.03	277	261	-	-	-	-
69	280	280	3,694	3,109	3,109	913
70	704	704	4,899	4,251	4,251	1,294
71	227	227	1,402	2,588	2,588	609
72	3,446	3,028	3,864	1,364	1,743	155
114	1,978	1,978	31	31	31	-
Rest of county	324,843	189,492	305,657	397,517	425,701	103,075
73	1,661	1,597	7,530	6,393	6,393	1,732
73.99 3/	...	...	3,034	-	(NA)	-
74	1,313	1,305	4,016	3,138	3,138	713
74.99 3/	...	...	5,070	7,593	7,593	-
75.01	563	537	4,946	7,467	7,494	2,005
75.02	5,070	1,013	1,496	444	444	16
75.03	559	458	4,982	4,865	5,024	1,306
76	212	212	2,934	1,556	1,614	413
77.01	309	304	4,880	4,645	4,650	1,210
77.02	1,420	776	4,752	4,838	4,879	1,421
78.01 (78 pt. and 79)	6,703	2,068	5,559	12,813	14,914	3,527
78.02 (78 pt.)	3,219	757	895	11,367	12,712	4,051

Continued on next page.

Table 11.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Rest of county, con.						
80.01	225	224	1,268	1,498	1,497	477
80.02	263	249	3,347	2,987	2,893	826
80.03	360	360	2,811	3,377	6,823	895
80.05	3,100	443	7,846	7,465	7,483	1,839
80.06 (80.04 pt.) ..	436	401	4,349	5,906	5,945	1,427
80.07 (80.04 pt.) ..	372	365	4,708	6,473	6,476	1,591
81	1,141	1,057	3,167	2,580	2,580	607
81.99 3/	...	...	368	-	(NA)	-
82	1,858	1,855	-	-	-	-
83	3,182	3,181	4,759	12,437	12,439	2,861
84	4,194	4,194	7,801	7,643	7,660	2,026
85	3,588	3,588	3,187	2,942	2,942	772
86.01	21,413	14,594	4,226	8,559	9,292	2,337
86.02	9,832	9,826	4,114	4,653	4,641	1,143
86.99 3/	...	...	-	21	21	-
87.01	342	334	5,958	7,284	7,296	1,518
87.02	262	253	4,509	3,854	3,819	911
87.03	421	416	2,238	3,468	3,487	1,116
88	688	663	3,429	4,484	4,913	992
89.01	330	324	7,328	7,861	7,911	1,984
89.02	17,739	12,433	4,420	25,874	30,960	7,764
89.03	14,467	6,515	2,369	6,566	12,783	1,626
90	6,609	6,609	2,783	2,413	2,413	672
91	8,224	3,169	3,410	3,339	3,712	798
92	715	645	6,637	7,420	7,615	2,195
93	298	246	4,875	4,451	4,485	1,429
94	425	278	6,048	5,040	5,084	1,743
95.01	1,862	1,396	3,762	3,587	3,587	887
95.02	321	321	4,901	5,326	5,326	1,466
95.03	443	443	2,566	6,076	6,076	1
95.04	207	207	1,495	955	955	249
95.05	6,212	6,212	858	2,955	2,955	831
96.01	10,010	7,833	4,024	5,159	5,903	1,111
96.03 (96.02 pt.) ..	1,730	1,694	5,100	5,711	5,815	1,439
96.04 (96.02 pt.) ..	5,034	4,913	4,530	4,165	4,178	975
97	7,603	4,793	6,020	10,524	11,497	2,697
98	13,753	4,405	4,403	5,928	6,018	1,742
99.01	22,302	13,543	4,529	5,350	5,553	1,613
99.02	998	980	2,817	2,620	3,087	753
100	45,977	18,259	1,825	1,879	1,894	478
101	19,229	10,222	3,497	4,491	5,616	1,496

Continued on next page.

Table 11.-- RESIDENT POPULATION, 1970 TO 1984, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	July 1, 1984	
Rest of county, con.						
102.01	16,219	4,112	3,255	3,952	4,101	1,166
102.02	8,289	3,499	3,810	5,752	5,838	1,080
103.02	2,529	1,285	3,338	3,232	3,240	817
103.03 (103.01 pt.) .	10,356	3,936	3,413	3,593	3,719	1,013
103.04 (103.01 pt. and 104)	4,575	2,439	4,776	9,784	11,026	2,737
105.01	1,028	895	5,501	8,712	9,192	2,501
105.03 (105.02 pt.) .	145	137	2,033	1,804	1,808	510
105.04 (105.02 pt.) .	308	302	4,956	4,794	5,093	1,236
106.01	283	247	3,227	3,019	3,059	835
106.02	491	482	5,105	4,994	5,075	1,374
107.01	749	495	2,586	3,680	3,825	1,128
107.02	1,021	566	3,500	3,723	4,030	907
108	3,027	2,752	7,860	11,578	11,578	1,854
108.99 3/	...	...	-	37	37	-
109.01	826	426	3,374	3,161	3,195	924
109.03 (109.02 pt.) .	222	221	4,500	4,158	4,234	1,263
109.04 (109.02 pt.) .	232	232	3,874	3,506	3,598	999
109.05 (109.02 pt.) .	136	136	2,874	2,536	2,601	794
110	6,809	2,941	3,957	4,218	4,245	1,115
111.01	1,112	1,012	6,352	7,966	8,477	2,384
111.03 (111.02 pt.) .	807	659	2,145	3,872	3,938	1,017
111.04 (111.02 pt.) .	484	360	4,858	5,370	5,381	1,462
112.01	575	560	5,377	4,841	4,929	1,498
112.02	327	203	1,832	1,663	1,705	643
113	7,100	5,125	6,777	9,132	9,288	2,137

NA Not available.

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Total land area less forest reserve and undevelopable open space.

3/ The ".99" census tracts consist of vessels anchored off the indicated tract.

Source: U.S. Bureau of the Census, 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), and Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981); City and County of Honolulu, Department of General Planning, unpublished estimates of census tract areas and populations, 1984. The 1970 population of tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 12.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Total, 4 counties ...	3,730,240	139,385	202,126	63,838
Hawaii County	2,581,888	63,468	92,053	29,237
201	74,828	5,503	5,261	1,558
202	154,950	2,059	1,748	502
203	908	3,435	4,292	1,744
204	710	3,531	4,003	1,342
205	1,672	4,604	5,672	1,826
205.99 2/	...	83	25	-
206	12,808	2,989	3,702	1,132
207	2,022	5,231	7,690	2,285
208	10,894	4,865	7,017	2,047
209	7,200	1,615	2,868	815
210	147,610	3,802	7,055	2,381
211	129,318	1,352	4,696	1,450
212	636,742	3,398	3,699	1,108
213	233,112	1,563	3,560	1,107
214	18,489	2,441	2,354	746
215	273,559	2,589	7,610	2,525
216	4,840	2,243	6,138	2,077
217	205,937	2,310	4,607	1,483
218	85,189	3,326	3,249	1,022
219	74,636	2,829	3,287	1,042
220	262,985	1,819	1,841	535
221	243,479	1,881	1,679	510
Maui and Kalawao Counties	751,936	46,156	70,991	22,581
Maui and Kahoolawe	495,104	38,691	62,823	20,162
301	148,941	969	1,423	435
302	38,548	2,067	3,567	1,096
303.01 (303 pt.)	92,037	2,024	3,850	1,317
303.02 (303 pt.)	45,442	100	1,227	474
304.01 (304 pt.)	10,430	2,494	4,366	1,341
304.02 (304 pt.)	10,892	1,629	4,285	1,254
305	4,931	1,665	1,710	553
306	12,743	781	220	92
307	22,348	1,636	6,020	2,103
307.99 2/	...	-	15	-
308	39,252	1,299	1,584	461
309	435	4,537	6,542	2,041
310	782	4,547	4,132	1,489

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Maui and Kalawao, con.				
Maui and Kahoolawe, con.				
311	3,290	5,505	10,424	2,967
312	808	2,782	2,602	893
313	2,689	1,132	572	174
314	28,704	4,171	6,654	2,115
315	32,832	1,353	3,630	1,357
Lanai	89,856	2,204	2,119	650
316	89,856	2,204	2,119	650
Molokai	166,976	5,261	6,049	1,769
317	83,328	2,574	3,574	1,044
318	75,136	2,515	2,331	654
319 (Kalawao County) .	8,512	172	144	71
Kauai County	396,416	29,761	39,082	12,020
Kauai	351,616	29,524	38,856	11,979
401	80,166	1,182	2,668	902
402	42,294	3,599	6,030	1,829
403	2,179	3,794	4,467	1,425
404	50,368	3,642	4,590	1,181
405	3,909	3,124	4,000	1,389
406	15,123	3,141	3,879	1,240
407	23,518	3,660	4,855	1,523
407.99 2/	...	50	-	-
408	77,347	3,173	3,111	947
409	56,712	4,159	5,256	1,543
Niihau and Lehua	44,800	237	226	41
410	44,800	237	226	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Maalaea Bay, adjacent to tract 307, are assigned to tract 307.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981), 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), Areas of Hawaii: 1960, GE-20, No. 13 (October 1967), p. 5, and revised acreage data for counties and islands supplied May 5, 1983. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 13.-- CENTERS OF POPULATION, FOR THE STATE, 1960 TO 1980, AND COUNTIES, 1970 AND 1980

["Center of population" is that point at which an imaginary flat, weightless, and rigid map of an area would balance if weights of identical value were placed on it so that each weight represented the location of one resident on the date of the census]

Geographic area	North latitude	West longitude	Approximate location
State:			
1960	21°12'50"	157°37'03"	7 mi. SE of Makapuu Point
1970	21°13'38"	157°39'20"	3.5 mi. SE of Blow Hole
1980	21.2009°	157.6129°	7 mi. SE of Koko Head
Geographic center 1/	20°15'	156°20'	24 mi. S of Kanahena Pt.
Hawaii County:			
1970	19°43'13"	155°19'22"	15 mi. W of Hilo
1980	19.7015°	155.3667°	17 mi. W of Hilo
Maui County:			
1970 2/	20°53'59"	156°33'06"	1 mi. NE of Iao Needle
1980	20.8809°	156.5184°	1 mi. SW of Wailuku PO
Kalawao County:			
1970 2/	...	...	...
1980	21.1930°	156.9766°	Kalaupapa
Honolulu County:			
1970	21°21'55"	157°53'18"	Tripler Hospital
1980	21.3704°	157.8946°	Moanalua Golf Course
Kauai County:			
1970	22°01'34"	159°28'19"	3.5 mi. SE of Kawaikini
1980	22.0065°	159.4659°	3.5 mi. N of Knudsen Gap

1/ Based on land area rather than population.

2/ Kalawao included with Maui in 1970.

Source: U.S. Bureau of the Census, *Centers of Population for States and Counties, 1950, 1960, and 1970* (December 1974), pp. 3, 66, and Hawaii map, and 1980 measurements provided May 8, 1984; U.S. Department of Commerce, News Release NOS 73-80 (October 10, 1973). Cited in Hawaii State Census Statistical Areas Committee, *Centers of Population, 1960-1980* (Report CTC-59, August 17, 1984).

Table 14 .-- POPULATION AND LAND AREA, URBAN AND RURAL, BY COUNTIES: 1970 AND 1980

[Urban places are those with populations of 2,500 or more. Places with populations less than 2,500 and open country are classified as rural. For 1960 statistics, see Data Book 1984, tables 15 and 16]

County and type of area	Land area (square miles)		Resident population	
	1970	1980	1970	1980
State total	6,425.4	6,425	769,913	964,691
Urban	226.8	278	643,222	834,592
Rural	6,198.6	6,147	126,691	130,099
City and Co. of Honolulu	595.7	596	630,528	762,565
Honolulu Urbanized Area 1/	115.0	135	443,749	582,463
Kailua-Kaneohe Urbanized Area 2/	(3/)	34	(3/)	105,712
Other urban	37.3	15	146,225	47,116
Rural	443.4	412	40,554	27,274
Hawaii County	4,037.0	4,034	63,468	92,053
Urban	56.1	61	26,353	40,020
Rural	3,980.9	3,973	37,115	52,033
Kauai County	619.1	620	29,761	39,082
Urban	10.2	12	6,918	17,454
Rural	608.9	608	22,843	21,628
Maui and Kalawao Counties	1,173.6	1,175	46,156	70,991
Urban	8.2	21	19,977	41,827
Rural	1,165.4	1,154	26,179	29,164

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu and Ewa Beach in 1970 and 1980, and also extending to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ Included with "other urban."

Source: 1970 from the Hawaii State Department of Planning and Economic Development, Land Use and Ownership Trends in Hawaii (Statistical Report 98, December 28, 1973), p. 19; 1980 from U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A1, tables 25 and 34, and PC80-1-A13, table 3, and the Hawaii State Department of Planning and Economic Development, Statistical Memorandum 83-6 (May 18, 1983).

Table 15 .-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO, BY COUNTIES: 1980 TO 2005

[Thousands. As of July 1. Series M-F projections, recommended by DPED for State planning purposes]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population: 2/						
1980 (est.)	968.9	764.8	204.1	93.0	39.4	71.6
1985 (est.)	1,053.9	814.6	239.2	109.2	44.8	85.3
1990	1,138.4	859.3	279.1	122.6	55.1	101.4
1995	1,211.5	896.9	314.6	134.4	63.9	116.3
2000	1,267.8	925.7	342.2	143.2	69.1	129.9
2005	1,310.0	954.5	355.5	147.6	72.2	135.7
De facto population: 3/						
1980 (est.)	1,055.8	823.6	232.2	99.5	46.4	86.4
1985 (est.)	1,152.0	865.1	286.9	115.8	55.6	115.5
1990	1,277.5	941.1	336.4	135.1	66.9	134.4
1995	1,373.0	985.2	387.8	150.6	79.3	157.9
2000	1,447.2	1,018.2	429.0	163.1	88.2	177.7
2005	1,501.0	1,052.1	448.9	168.6	92.2	188.1

1/ Includes Kalawao.

2/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

3/ The de facto population is defined as the number of persons physically present in an area, regardless of military status or usual place of residence; it includes visitors present but excludes residents temporarily absent.

Source: Hawaii State Department of Planning and Economic Development, *The Population of Hawaii, 1980-1985* (Statistical Report 190, July 2, 1986), table 5, and *Population and Economic Projections for the State of Hawaii, 1980-2005* (July 1984), p. 11.

Table 16 .-- POPULATION BY AGE GROUP AND SEX: 1980

[Based on full-count information. For single-year data, see either the source or *Data Book 1984*, table 18]

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages	964,691	494,683	470,008	762,565	202,126
Under 5 years	77,848	40,004	37,844	60,154	17,694
5 to 9 years	73,057	37,555	35,502	56,771	16,286
10 to 14 years	74,870	38,459	36,411	58,528	16,342
15 to 19 years	86,446	45,673	40,773	69,715	16,731
20 to 24 years	105,682	59,070	46,612	89,371	16,311
25 to 29 years	95,287	48,864	46,423	75,965	19,322
30 to 34 years	84,314	42,990	41,324	67,491	16,823
35 to 39 years	63,948	32,684	31,264	51,285	12,663
40 to 44 years	47,468	23,765	23,703	38,045	9,423
45 to 49 years	45,240	21,589	23,651	36,161	9,079
50 to 54 years	49,204	23,298	25,906	38,614	10,590
55 to 59 years	47,383	23,502	23,881	36,645	10,738
60 to 64 years	37,794	18,871	18,923	28,452	9,342
65 to 69 years	29,153	15,384	13,769	21,457	7,696
70 to 74 years	20,222	10,991	9,231	14,475	5,747
75 to 79 years	13,673	6,796	6,877	9,901	3,772
80 to 84 years	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median (years)	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (July 1982), table 19.

Table 17.-- POPULATION, BY AGE, SEX, AND MILITARY STATUS: 1980

[Based on a 15.7-percent sample]

Age in years	All groups	Armed forces		Military dependents 1/		Other civilians	
		Male	Female	Male	Female	Male	Female
Total	964,691	54,032	4,411	20,192	41,782	420,748	423,526
Under 1	17,113	-	-	1,590	1,495	7,075	6,953
1 to 4	59,871	-	-	5,498	5,415	25,375	23,583
5 to 9	73,311	-	-	5,529	5,161	32,330	30,291
10 to 14	74,747	-	-	3,772	3,617	34,861	32,497
15 to 19	86,054	5,598	411	2,184	2,841	37,958	37,062
20 to 24	105,987	21,970	1,937	636	5,738	36,687	39,019
25 to 29	95,453	9,960	1,237	408	5,923	38,249	39,676
30 to 34	84,781	7,345	447	144	5,104	35,960	35,781
35 to 39	65,309	4,939	113	82	3,210	28,315	28,650
40 to 44	46,740	2,534	83	18	1,537	20,876	21,692
45 to 49	43,486	1,001	88	34	812	19,725	21,826
50 to 54	49,611	428	65	93	422	22,594	26,009
55 to 59	48,155	185	18	57	169	23,874	23,852
60 to 64	38,108	63	12	33	99	18,818	19,083
65 to 69	28,653	-	-	80	121	15,158	13,294
70 to 74	20,524	-	-	24	76	10,928	9,496
75 to 79	13,649	9	-	-	17	6,603	7,020
80 to 84	7,607	-	-	5	20	3,281	4,301
85 and over	5,532	-	-	5	5	2,081	3,441
Under 15	225,042	-	-	16,389	15,688	99,641	93,324
15 to 64	663,684	54,023	4,411	3,689	25,855	283,056	292,650
65 and over	75,965	9	-	114	239	38,051	37,552
Median (years) .	28.4	24.9	24.6	7.7	22.1	29.7	30.4

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the armed forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), table 4.

Table 18.-- ESTIMATED POPULATION, BY AGE: 1980, 1984, AND 1985

[Resident population, including armed forces stationed in Hawaii]

Age group	April 1, 1980 (census)	July 1, 1984 (revised est.)	July 1, 1985 (prov. est.)
All ages	964,691	1,037,200	1,053,900
Under 5 years	77,848	90,500	92,300
5 to 9 years	73,057	76,100	78,800
10 to 14 years	74,870	74,700	73,600
15 to 19 years	86,446	79,700	79,200
20 to 24 years	105,682	97,400	96,000
25 to 34 years	179,601	195,500	196,500
35 to 44 years	111,416	140,600	147,800
45 to 54 years	94,444	92,200	92,800
55 to 59 years	47,383	50,400	50,200
60 to 64 years	37,794	46,200	48,100
65 to 74 years	49,375	60,300	63,100
75 to 84 years	21,214	26,300	27,600
85 years and over	5,561	7,400	7,900
Under 14 years	210,344	225,600	228,800
14 and 15 years	31,682	30,500	31,600
16 and 17 years	33,557	29,100	29,200
18 to 20 years	58,547	56,300	54,100
21 to 64 years	554,411	601,800	611,600
65 years and over	76,150	94,000	98,700
5 to 17 years	197,735	194,700	197,300
18 to 24 years	142,320	133,200	130,300
14 years and over	754,347	811,600	825,100
16 years and over	722,665	781,100	793,500
18 years and over	689,108	752,000	764,300
21 years and over	630,561	695,700	710,200
Median age (years) 1/	28.3	29.9	30.4

1/ Estimated (by DPED) by linear interpolation.

Source: U.S. Bureau of the Census, Current Population Reports, Series P-25, No. 998, and records.

Table 19.-- ESTIMATED POPULATION, BY AGE AND SEX, FOR COUNTIES: JULY 1, 1982

[Provisional estimates]

Sex and age	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Total	997,844	781,907	98,597	41,290	76,050
Males	510,724	401,116	49,878	21,089	38,641
Under 5 years	43,087	32,786	4,786	1,987	3,528
5 to 9 years	36,690	28,048	4,014	1,649	2,979
10 to 14 years	38,603	29,825	4,044	1,685	3,049
15 to 19 years	43,282	34,592	3,963	1,617	3,110
20 to 24 years	60,210	51,970	3,701	1,546	2,993
25 to 34 years	96,130	76,260	8,746	3,761	7,363
35 to 44 years	63,121	49,892	6,088	2,428	4,713
45 to 54 years	44,259	34,943	4,324	1,805	3,187
55 to 64 years	43,549	33,222	4,683	2,007	3,637
65 to 74 years	28,161	20,098	3,644	1,708	2,711
75 years and over	13,632	9,480	1,885	896	1,371
Females	487,120	380,791	48,719	20,201	37,409
Under 5 years	41,114	31,226	4,646	1,920	3,322
5 to 9 years	34,600	26,380	3,856	1,598	2,766
10 to 14 years	36,244	27,891	3,869	1,614	2,870
15 to 19 years	38,373	30,441	3,669	1,487	2,776
20 to 24 years	47,539	39,222	3,784	1,518	3,015
25 to 34 years	92,457	72,922	8,873	3,565	7,097
35 to 44 years	60,634	48,060	5,647	2,368	4,559
45 to 54 years	47,964	37,799	4,666	1,974	3,525
55 to 64 years	45,488	34,851	4,847	2,054	3,736
65 to 74 years	26,306	19,682	3,029	1,297	2,298
75 years and over	16,401	12,317	1,833	806	1,445

Source: Hawaii State Department of Planning and Economic Development, Estimated Population by Age, Sex, and Counties, 1970 to 1982 (Statistical Report 179, November 12, 1985).

Table 20 .-- PROJECTED RESIDENT POPULATION, BY AGE AND SEX: 1990, 1995, AND 2005

[Thousands. As of July 1. Series M-F projections, recommended by DPED for Statewide planning purposes. For 1980 estimate and 2000 projection, see source or Data Book 1984, table 22]

Age in years	1990			1995			2005		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total .	1,138.4	578.5	560.0	1,211.5	613.2	598.3	1,310.0	659.8	650.1
0 to 4	89.4	45.7	43.6	91.3	46.7	44.6	91.3	46.8	44.5
5 to 9	83.4	43.0	40.4	87.0	44.8	42.2	88.8	45.7	43.1
10 to 14 ...	78.1	40.1	38.0	82.1	42.1	40.0	85.7	43.9	41.7
15 to 19 ...	82.9	44.6	38.3	85.2	45.8	39.4	89.0	47.7	41.3
20 to 24 ...	109.5	62.7	46.8	109.5	62.8	46.6	109.6	63.1	46.6
25 to 29 ...	101.4	52.5	48.9	101.2	52.8	48.4	98.8	51.7	47.0
30 to 34 ...	98.2	49.8	48.4	99.6	51.0	48.7	96.8	50.0	46.8
35 to 39 ...	88.8	44.8	43.9	93.5	47.4	46.1	93.8	48.1	45.7
40 to 44 ...	75.6	37.7	37.9	84.1	41.9	42.2	89.6	45.2	44.4
45 to 49 ...	61.8	30.2	31.6	72.7	35.6	37.1	84.3	41.7	42.6
50 to 54 ...	52.8	25.4	27.4	62.2	30.1	32.1	77.5	37.9	39.7
55 to 59 ...	47.7	22.6	25.1	53.2	25.4	27.8	68.6	33.1	35.5
60 to 64 ...	44.8	21.1	23.7	47.2	22.2	25.0	59.0	28.0	31.0
65 to 69 ...	40.0	19.1	20.9	42.1	19.7	22.5	50.0	23.2	26.8
70 to 74 ...	32.2	15.5	16.7	35.7	16.5	19.2	41.6	18.7	22.8
75 to 79 ...	23.1	11.1	12.1	27.4	12.5	14.9	33.1	14.4	18.8
80 to 84 ...	14.8	6.9	8.0	18.5	8.2	10.3	24.0	9.9	14.1
85 and over	14.0	5.7	8.3	19.0	7.7	11.3	28.6	10.8	17.8
Median age .	31.3	30.1	32.5	32.5	31.1	33.9	34.7	33.1	36.5

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), pp. 12-13.

Table 21.-- CENTENARIAN POPULATION AND DEATHS: 1980 TO 1985

Subject	Number			Age of oldest (years)	
	Both sexes	Male	Female	Male	Female
Persons 100 years and over:					
April 1980 1/	113	51	62	110+	110+
Dec. 1983 2/	70	30	40	110	109
June 1985 2/	88	34	54	(NA)	(NA)
Deaths 100 and over:					
1980-1984	99	28	71	110	113
1985	33	10	23	114	109

NA Not available.

1/ Census data.

2/ Social Security beneficiaries in force.

Source: Hawaii State Department of Health and Department of Planning and Economic Development, Extreme Old Age in Hawaii (Population Report, No. 14, November 1982); U.S. Department of Human Services, Social Security Administration, Division of Statistical Operations and Services, records; Hawaii State Department of Health, Research and Statistics Office, records.

Table 22.-- ETHNIC STOCK BY MILITARY STATUS: 1985

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,934 persons]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	1,015,300	100.0	44,932	86,760	883,609
Unmixed	732,860	72.2	42,708	71,812	618,341
Caucasian	274,454	27.0	29,412	50,143	194,898
Japanese	232,576	22.9	438	723	231,415
Chinese	46,055	4.5	-	97	45,958
Filipino	112,774	11.1	1,795	5,802	105,177
Hawaiian	6,824	0.7	-	97	6,727
Korean	14,636	1.4	-	1,234	13,402
Black	24,215	2.4	9,752	10,923	3,540
Puerto Rican	5,318	0.5	575	1,110	3,633
Samoan	5,569	0.5	186	100	5,282
Other unmixed or unknown	10,440	1.0	550	1,583	8,308
Mixed	282,440	27.8	2,224	14,948	265,268
Part Hawaiian	167,994	16.5	364	2,580	165,050
Non Hawaiian	114,446	11.3	1,860	12,368	100,218

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 23.-- ETHNIC STOCK, BY COUNTIES: 1985

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 17,934 persons]

Ethnic stock 1/	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	1,015,300	774,913	109,420	45,150	85,817
Unmixed	732,860	571,574	75,017	30,673	55,597
Caucasian	274,454	208,809	34,950	9,513	21,181
Japanese	232,576	183,434	24,783	9,019	15,340
Chinese	46,055	43,732	1,577	296	450
Filipino	112,774	74,990	11,093	10,275	16,417
Hawaiian	6,824	4,316	816	880	811
Korean	14,636	13,883	276	197	280
Black	24,215	24,029	45	62	78
Puerto Rican	5,318	3,592	1,070	275	380
Samoan	5,569	5,547	-	-	22
Other unmixed and unknown	10,440	9,241	407	156	637
Mixed	282,440	203,339	34,403	14,477	30,220
Part Hawaiian	167,994	116,929	21,060	9,510	20,495
Non Hawaiian	114,446	86,410	13,343	4,967	9,725

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 24.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

[Based on a 15.7-percent sample]

Race and Spanish origin	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	964,691	762,565	92,053	144	39,082	70,847
Race: 1/						
White	331,925	262,604	32,198	21	11,565	25,537
Black	17,687	17,203	278	-	59	147
American Indian	2,833	2,348	316	-	63	106
Eskimo	74	69	-	-	-	5
Aleut	69	28	17	-	-	24
Japanese	239,734	190,218	24,446	23	9,606	15,441
Chinese	55,916	52,301	1,600	9	587	1,419
Filipino	132,075	96,421	12,746	26	9,944	12,938
Korean	17,453	16,566	522	1	128	236
Asian Indian	708	637	25	-	-	46
Vietnamese	3,403	3,251	139	-	-	13
Hawaiian	118,251	81,868	17,317	59	6,057	12,950
Guamanian	1,630	1,470	49	-	64	47
Samoan	14,349	13,975	219	3	63	89
Other Asian and Pacific Islander	7,140	6,410	490	2	24	214
Race n.e.c.	21,444	17,196	1,691	-	922	1,635
Spanish origin: 2/						
Spanish origin	71,399	54,619	8,261	1	3,226	5,292
Not of Spanish origin ..	893,292	707,946	83,792	143	35,856	65,555

n.e.c. Not elsewhere classified.

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

2/ For a cross-tabulation of Spanish origin by race, see Data Book 1985, table 27.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), tables 58 and 59.

Table 25.-- ANCESTRY: 1980

Ancestry group 1/	Persons who reported -- At least one specific ancestry group	A single ancestry group	A multiple ancestry group
Total 2/	901,210	632,972	268,238
Dutch	10,554	1,886	8,668
English	96,223	33,262	62,961
French	26,429	3,926	22,503
German	82,982	22,181	60,801
Irish	68,041	12,845	55,196
Italian	13,994	5,331	8,663
Portuguese	57,541	26,447	31,094
Scottish	24,300	3,387	20,913
Afro-American	15,612	13,200	2,412
Chinese	91,305	45,062	46,243
Filipino	139,621	105,973	33,648
Japanese	246,000	214,964	31,036
Korean	20,854	15,091	5,763
Puerto Rican	14,997	7,082	7,915
Spanish/Hispanic	17,208	4,001	13,207
Hawaiian 3/	136,341	61,226	75,115
American Indian	11,728	2,210	9,518

1/ Shown separately for all groups over 10,000.

2/ Numbers by ancestry group do not add to total because persons reporting a multiple ancestry are included in more than one group.

3/ The U.S. total for persons with Hawaiian ancestry was 202,054, including 84,104 reporting a single ancestry group and 117,950 reporting a multiple ancestry group. Out of 65,708 Mainland residents reporting Hawaiian ancestry, 32,145 were living in California.

Source: U.S. Bureau of the Census, 1980 Census of Population, Ancestry of the Population by State: 1980, Supplementary Report PC80-S1-10 (April 1983).

Table 26.-- FRACTION OF HAWAIIAN BLOOD AMONG STUDENTS AT THE KAMEHAMEHA SCHOOLS: 1929 TO 1984-85

Fraction of Hawaiian blood	1929	1954	1969	1980 -1981	1983 -1984	1984 -1985
Number	436	1,258	2,588	2,597	2,722	2,745
Percent	100.0	100.0	100.00	100.00	100.00	100.00
Unmixed	7.3	3.3	0.08	0.12	0.04	0
7/8	-	2.1	0.62	0.85	1.25	1.02
3/4	23.4	11.7	3.25	2.43	2.57	2.69
5/8	-	5.3	7.65	5.43	5.73	6.12
1/2	47.7	38.5	15.03	10.74	12.31	11.66
3/8	-	11.4	19.98	16.67	17.89	17.60
1/4	18.1	24.8	27.74	28.49	29.58	29.69
1/8	3.4	2.9	21.82	28.92	23.69	24.15
1/16		-	3.83	6.35	6.94	7.07

Source: The Kamehameha Schools, records.

Table 27 .-- MALES PER 100 FEMALES, BY AGE AND MARITAL STATUS: 1980

Age	Total population	Single, widowed, or divorced	Never married
All ages	105.4	110.4	146.7
Under 15 years	106.4	...	...
15 years and over	105.1	110.4	146.7
15 to 24 years	120.7	136.9	139.1
25 to 44 years	103.7	126.7	166.0
45 to 64 years	94.0	66.3	152.2
65 years and over ..	101.0	44.3	167.2

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (1983), table 205.

Table 28.-- NATIVITY, PLACE OF BIRTH, AND CITIZENSHIP: 1980 AND 1970

Nativity, place of birth, and citizenship	State totals		Islands: 1980	
	1980	1970	Oahu	Other islands
NATIVITY AND PLACE OF BIRTH				
Total persons	964,691	768,559	762,565	202,126
Native 1/	827,675	692,964	649,354	178,321
Born in Hawaii	557,990	455,060	420,120	137,870
Born in different State	248,752	178,531	209,901	38,851
Born abroad, at sea, etc. 2/	20,933	17,286	19,333	1,600
Foreign born	137,016	75,595	113,211	23,805
Europe and U.S.S.R.	9,100	5,595	7,457	1,643
China	6,112	4,663	5,875	237
Japan	22,265	19,685	18,718	3,547
Korea	9,060	2,063	8,774	286
Philippines	58,510	33,175	43,880	14,630
Vietnam	3,606	(3/)	3,531	75
All other countries	22,267	8,208	19,719	2,548
Country not reported	6,096	2,206	5,257	839
CITIZENSHIP 4/				
Foreign born	137,016	73,578	113,211	23,805
Naturalized citizen	62,287	30,566	51,314	10,973
Not a citizen	74,729	43,012	61,897	12,832

1/ 1970 figure includes persons not reporting place of birth, not shown separately.

2/ Includes persons born in Puerto Rico, American Samoa, or other outlying areas of the United States, and persons born at sea or in a foreign country having at least one American parent.

3/ Included with "All other countries."

4/ 1970 data based on a subsample; foreign born total thus differs somewhat from corresponding figure shown elsewhere in this table.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 63, and 118; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (July 1972), tables 141 and 144.

Table 29 .-- PLACE OF BIRTH AND LENGTH OF RESIDENCE IN HAWAII, BY MILITARY STATUS: 1985

[Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Based on a sample survey of 17,934 persons]

Place of birth and length of residence	All groups	Armed forces	Military dependents	Other civilians
Total	1,015,300	44,932	86,760	883,609
PLACE OF BIRTH				
Native born	879,160	42,380	74,699	762,081
Hawaii	613,454	1,211	15,322	596,921
Mainland U.S.	256,976	40,313	57,861	158,802
American Samoa	4,800	97	-	4,703
Other terr. or poss. ...	3,930	759	1,516	1,655
Foreign born	131,153	2,553	11,456	117,146
China 1/	11,581	-	182	11,399
Indo-China 2/	4,661	90	-	4,571
Japan	21,422	38	1,090	20,295
Korea	10,840	-	1,497	9,343
Philippines	61,143	1,790	4,038	55,316
Other foreign	21,506	635	4,649	16,222
Not reported	4,987	-	606	4,381
LENGTH OF RESIDENCE IN HAWAII				
Less than 1 year	56,827	7,976	22,359	26,492
1 to 4 years	189,942	31,384	54,870	103,687
5 to 9 years	126,138	3,576	6,917	115,644
10 to 19 years	205,174	1,184	1,156	202,835
20 years or more	430,612	811	1,350	428,450
Not reported	6,607	-	107	6,500
Median years	16.4	2.8	2.5	19.5

1/ Includes Taiwan.
2/ Cambodia, Laos, or Vietnam.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 30.-- CITIZENSHIP, BY AGE AND LENGTH OF RESIDENCE IN HAWAII: 1985

[Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Based on a sample survey of 17,934 persons]

Age and length of residence in Hawaii	All categories	U.S. citizens		U.S. nationals 1/	Aliens	Status not reported
		Native born	Naturalized			
Total	1,015,300	890,924	61,755	2,584	54,957	5,081
Age:						
Under 6 years	101,076	100,004	256	136	459	219
6 to 16 years	184,629	173,128	2,793	1,100	6,828	780
17 to 24 years	143,311	126,350	5,138	197	10,522	1,104
25 to 44 years	309,850	266,153	24,252	687	17,307	1,451
45 to 64 years	193,738	162,157	19,553	450	10,666	911
65 years and over ...	82,697	63,132	9,762	14	9,174	615
Median age (years) ..	30.1	28.5	43.7	19.3	36.2	31.0
Years lived in Hawaii:						
Less than 1 year	56,827	49,850	1,230	81	5,556	110
1 to 4 years	189,942	166,746	5,467	180	17,102	446
5 to 9 years	126,138	101,397	10,104	1,482	12,233	922
10 to 19 years	205,174	171,282	21,917	630	10,539	805
20 years or more	430,612	397,980	22,209	211	9,089	1,122
Not reported	6,607	3,668	827	-	437	1,675
Median (years)	16.4	17.3	16.2	8.5	6.9	12.8

1/ From American Samoa.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 31.-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1980

[Unless otherwise specified, data are based on a 15.7-percent sample]

Language	Total	Speak English --			
		Very well	Well	Not well	Not at all
Persons 5 and over	887,707	...	...	...	...
Speak only English at home	658,752	...	...	...	...
Speak a language other than English at home	228,955	110,338	74,946	37,797	5,874
Chinese 1/	20,066	9,057	6,096	4,014	899
Japanese 1/	80,230	39,640	24,705	13,475	2,410
Korean	9,231	2,707	3,317	2,749	458
Philippine language 1/	66,655	26,550	26,311	12,533	1,261
Spanish	11,933	8,752	2,460	697	24
All others	40,840	23,632	12,057	4,329	822
Hawaiian 2/	9,060	6,580	2,200	240	40
Samoan 2/	11,020	5,000	4,320	1,640	60
Tongan 2/	1,180	360	560	260	-
Other Polynesian 2/	480	280	120	80	-

1/ For statistics on individual Chinese, Japanese, and Philippine languages or dialects, see *Data Book 1984*, tables 38 and 39.

2/ Based on the 5-percent Public Use Microdata Sample.

Source: U.S. Bureau of the Census, *1980 Census of Population, Detailed Population Characteristics, Hawaii*, PC80-1-D13 (October 1983), table 197, and *Census of Population and Housing, 1980*, Public Use Microdata Sample A-5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 32.-- PERSONS FIVE YEARS OLD AND OVER SPEAKING HAWAIIAN AT HOME, BY AGE, RACE, AND ABILITY TO SPEAK ENGLISH: 1980

[Based on the 5-percent Public Use Microdata Sample]

Race and age	Speak Hawaiian at home	Speak English -- Very well	Well	Not well	Not at all
Total, 5 and over ...	9,060	6,580	2,200	240	40
Race: 1/					
Hawaiian	7,920	5,800	1,900	200	20
White	580	400	120	40	20
Chinese	240	120	120	-	-
All other races 2/	320	260	60	-	-
Age:					
5 to 14 years	840	720	120	-	-
15 to 24 years	1,500	1,200	380	20	-
25 to 44 years	2,260	1,680	520	60	-
45 to 64 years	2,480	1,680	700	100	-
65 years and over	1,980	1,400	480	60	40
Median age (years)	44.4	42.5	47.3	53.0	65+

1/ Persons of mixed race classified either by self-identification or race of mother.

2/ Includes Japanese (100), Filipino (60), Korean (20), Black (20), and all other races (120).

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980, Public Use Microdata Sample A--5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 33 .-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
RESIDENT POPULATION						
Total persons	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80	25.3	20.9	45.0	-16.3	31.3	54.1
Under 18 years	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over	7.9	7.3	10.2	25.7	11.1	9.9
Median age	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio 1/	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male	56.3	55.7	59.2	51.7	59.9	58.2
Female	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS AND FAMILIES						
Households	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 .	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household ...	3.15	3.15	3.09	1.46	3.22	3.11
Families	226,035	176,916	22,784	30	9,475	16,830
Persons per family	3.61	3.62	3.51	2.00	3.62	3.59

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), tables 14 , 21, 47, and 49.

Table 34.-- POPULATION CHARACTERISTICS, BY MILITARY STATUS: 1980

Subject	All groups	Armed Forces	Military dependents 1/	Other civilians
Number	964,691	58,443	61,974	844,274
Race (percent):				
White	34.4	73.7	67.2	29.3
Black	1.8	13.3	7.5	0.6
American Indian, Eskimo, Aleut	0.3	0.9	0.4	0.3
Asian and Pacific Islander	61.2	8.1	20.8	67.9
Other	2.2	3.9	4.0	2.0
Spanish origin (percent)	7.4	7.1	8.9	7.3
Males per 100 females	105.4	1,224.9	48.3	99.3
Median age (years)	28.4	24.9	14.3	29.7
Population per household	3.14	3.29		3.12
Percent in group quarters	4.1	41.1	6.8	1.8
Percent of persons 15 and over married:				
Male	55.7	52.6	21.3	56.7
Female	57.3	44.4	88.9	55.0
Children ever born per 1,000 women 15-44	1,219	460	1,499	1,201
Place of birth (percent):				
Hawaii	57.8	4.2	17.1	64.5
Different State	25.8	87.2	64.2	18.7
Foreign country	14.2	6.1	12.0	14.9
Residence in 1975 (percent):				
Same house as 1980	49.3	3.6	7.2	55.3
Different State	16.9	79.7	65.6	9.2
Abroad	5.9	9.7	14.3	5.1
Percent of persons 25 and over high school graduates	73.8	95.5	84.6	72.2
Percent of persons 16 and over in labor force	68.3	100.0	44.6	66.5
Percent of civilian labor force unemployed	4.7	...	12.2	4.5
Percent of employed persons in managerial and professional specialty occupations	23.5	...	19.4	23.6
Median income in 1979 (dollars):				
Persons	7,325	8,123	3,273	7,532
Families	22,648	14,055	...	24,234
Unrelated individuals	7,154	6,608	...	7,791

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the Armed Forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), tables 1 and 2.

Table 35.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	State total	Oahu	Other islands
Total persons	964,691	762,565	202,126
In households	925,092	725,865	199,227
Householder	294,052	230,214	63,838
Family householder: Male	190,426	148,549	41,877
Female	35,609	28,367	7,242
Nonfamily householder: Male	37,333	28,632	8,701
Female	30,684	24,666	6,018
Spouse	185,698	145,333	40,365
Child	330,281	260,999	69,282
Brother or sister	11,115	8,989	2,126
Parent	11,493	9,231	2,262
Other relative	50,361	38,890	11,471
Nonrelatives	42,092	32,209	9,883
In group quarters	39,599	36,700	2,899
Inmate of institution	5,785	4,565	1,220
Other	33,814	32,135	1,679
Persons 75 years and over living alone	5,075	3,560	1,515
Persons per household	3.15	3.15	3.12
Persons per family	3.61	3.62	3.56
Persons under 18 years	275,583	214,563	61,020
Householder or spouse	387	295	92
Own child	243,671	190,289	53,382
In married-couple family	204,455	159,866	44,589
With female householder, no husband present	32,392	25,584	6,858
With male householder, no wife present	6,824	4,889	1,935
Other relatives	25,918	19,832	6,086
Nonrelatives	3,985	2,941	1,044
Inmate of institution	387	349	38
Other, in group quarters	1,235	857	378
Persons 65 years and over	76,150	55,368	20,782
Family householder: Male	25,453	17,831	7,622
Female	3,959	3,024	935
Spouse	13,763	9,755	4,008
Other relatives	14,015	10,945	3,070
Nonrelatives	1,887	1,396	491
Nonfamily householder: Male	4,670	3,046	1,624
Female	8,705	6,548	2,157
Inmate of institution	2,961	2,116	845
Other, in group quarters	737	707	30

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 36.-- HOUSEHOLDS AND HOUSEHOLD SIZE: 1940 TO 1985

[As of April 1, 1940-1980, and July 1 thereafter. For annual estimates, 1971-1979, see Data Book 1985, table 585]

Year	Households	Average size	Year	Households	Average size
1940 ...	86,855	4.46	1981 ...	303,000	3.11
1950 ...	111,858	4.14	1982 ...	309,000	3.10
1960 ...	153,064	3.87	1983 ...	315,000	3.11
1970 ...	203,088	3.59	1984 ...	324,000	3.08
1980 ...	294,052	3.15	1985 ...	330,000	3.07

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 33. U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 14; "Estimates of Households, for States: 1981 to 1984," Current Population Reports, Population Estimates and Projections, Series P-25, No. 974, August 1985; and News Release CB86-60, April 18, 1986. Average household size, 1981-1985, based on population estimates in DPED, Statistical Report 190, table 2, and 1980 group quarters population.

Table 37.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total	226,035	185,698	29,422
With own children under 18 years	132,087	101,644	17,410
With own children under 6 years only	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years	243,671	204,455	32,392
Number of own children under 6 years	79,619	68,656	9,230

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 38 .-- HOUSEHOLDS AND FAMILIES: 1980 TO 1985

[Averages for periods specified. Based on pooled samples of 1,885 households (5,805 persons) for 1980-1982 and 1,735 households (5,288 persons) for 1983-1985]

Subject	1980-1982	1983-1985
Number of households	308,728	327,392
Persons in households	946,068	999,381
Per household	3.06	3.05
Number of families	233,739	247,523
Persons in families	832,532	877,672
Per family	3.56	3.55

Source: U.S. Bureau of the Census for the U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1980 to 1985; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 39 .-- MARITAL STATUS, BY SEX: 1985

[Excludes persons in institutions, military barracks, or Kalawao, or on Niihau. Based on a sample survey of 13,888 persons 14 years old and over]

Marital status	Male	Female
Persons 14 years old and over	390,852	394,906
Single, never married	138,391	111,545
Married, except separated	225,876	229,088
Separated	2,630	4,230
Widowed	7,412	28,189
Divorced	15,870	21,487
Not reported	674	367

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 40.-- MARRIED COUPLES, UNMARRIED COUPLES, AND SUBFAMILIES: 1960 TO 1980

Subject	1960	1970	1980
Married couples	120,192	154,678	198,398
Married couple families 1/	113,164	147,326	188,933
Married couple subfamilies 2/ ...	7,028	7,352	9,465
Percent	5.8	4.8	4.8
Unmarried couples	(NA)	(NA)	9,963
No persons under 15 years	(NA)	(NA)	7,529
One or more persons under 15 years	(NA)	(NA)	2,434
Subfamilies 2/	9,151	10,111	13,319
Married couple subfamilies	7,028	7,352	9,465
Mother-child subfamilies	1,731	2,288	3,132
Other subfamilies	392	471	722

NA Not available.

1/ Based on a sample; data may therefore differ somewhat from comparable data in table 37.

2/ A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without children, or one parent with one or more never married children under 18 years of age, living in a household and related to either the householder or householder's spouse. The number or percentage of subfamilies is sometimes treated as a measure of the "doubling up" of households.

Source: U.S. Bureau of the Census, *1960 Census of Population, Detailed Characteristics, Hawaii*, PC(1)-13D (1962), table 108; *1970 Census of Population, Detailed Characteristics, Hawaii*, PC(1)-D13 (1972), table 155; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (1983), table 64 and p. B-2; *1980 Census of Population, Detailed Population Characteristics, Hawaii*, PC80-1-D13 (1983), table 208.

Table 41 .-- MARRIED COUPLES, BY RACE OF PARTNERS: 1980

[Based on self-identification or race of mother. For greater detail, see source. For 1970 statistics, see Data Book 1973, table 18]

Race of wife	Race of husband										Percent same, by race of --	
	All husbands	White	Black	Japanese	Chinese	Filipino	Korean	Hawaiian	Samoan	Other races	Husband	Wife
All wives .	198,398	69,946	3,390	55,793	12,432	26,956	3,159	18,955	1,891	5,876	1/ 75.6	1/ 75.7
White	64,553	52,434	452	2,505	1,105	2,235	278	4,134	181	1,229	75.0	81.2
Black	2,306	126	2,116	12	13	7	-	16	-	16	62.4	91.8
Japanese	59,946	5,101	167	48,672	1,996	1,254	557	1,677	35	487	87.2	81.2
Chinese	13,041	1,667	43	1,656	8,015	406	185	902	19	148	64.5	61.5
Filipino	26,328	3,067	180	844	241	20,435	94	1,095	30	342	75.8	77.6
Korean	4,262	1,150	36	580	193	134	1,926	141	-	102	61.0	45.2
Hawaiian	19,991	4,552	199	1,258	699	1,921	108	10,549	212	493	55.7	52.8
Samoan	1,785	137	15	20	17	67	-	68	1,405	56	74.3	78.7
Other races	6,186	1,712	182	246	153	497	11	373	9	3,003	(NA)	(NA)

NA Not available.

1/ Excludes "Other races" from calculation of percentages.

Source: U.S. Bureau of the Census, 1980 Census of Population, Marital Characteristics, PC80-2-4C (March 1985), table 12.

Table 42 .-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982

Denomination 1/	Churches	Clergy	Members
Buddhist:			
Honpa Hongwanji	36	40	21,500
Kegonshu Todaiji 2/	1	2	30,000
Others 3/	52+	68+	14,030+
Christian:			
Greek Orthodox (Eastern) 4/	1	1	200
Protestant:			
Assembly of God	(NA)	(NA)	7,000
Church of Jesus Christ of Latter-Day Saints	87	(5/)	31,027
Episcopal	40	85	10,541
Jehovah's Witnesses	59	59	4,730
Lutheran	21	25	4,604
Seventh-day Adventists	21	29	4,147
Southern Baptist	60	65	11,340
United Church of Christ	113	129	17,485
United Methodist Church	31	44	6,242
Other Protestant 6/	100+	249+	10,647+
Roman Catholic 7/	64	168	209,000
Other Christian 8/	3+	4+	3,255+
Indian or Hindu 9/	23+	28+	1,880+
Jewish 4/, 10/	1+	2+	442
Muslim	1	-	500
New religious movements:			
Tenrikyo	72	300	4,500
Others 11/	20+	28+	7,785+
Shinto:			
Daijingu Temple of Hawaii 2/	(NA)	(NA)	7,500
Kotohira Jinsha Mission 2/	(NA)	(NA)	7,500
Others 12/	(NA)	(NA)	(NA)
Other religious faiths 13/	31+	(NA)	6.306+

NA Not available.

1/ Shown separately for denominations with 4,000 or more members, and selected other denominations. For a complete listing, see source.

2/ Membership figure refers to number receiving healing, blessing, or special amulet.

3/ 19 denominations, of which 17 reported data.

Continued on next page.

Table 42.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982 -- Con.

4/ Membership figure refers to families rather than individuals.

5/ Lay leaders.

6/ 19 denominations, of which 12 reported number of churches and clergy and 11 reported membership.

7/ Membership in 1985 was estimated at 217,000 (Honolulu Advertiser, May 31, 1986, p. A-9).

8/ 4 denominations (Christian Science, Religious Science, Society of Friends, and Unity), of which 3 reported data.

9/ 9 denominations, of which 8 reported data.

10/ 2 denominations, of which 1 reported data.

11/ 6 denominations, of which 5 reported data.

12/ 3 denominations, of which none reported data.

13/ 4 denominations (Baha'i, Scientology, Unification Church, and Unitarian), of which 3 reported data.

Source: Survey by Department of Religion, University of Hawaii, reported in Geography Department, University of Hawaii, Atlas of Hawaii, Second Edition (1983), p. 133.

Table 43 .-- CHURCHES AND CHURCH MEMBERSHIP, BY COUNTIES: 1980

[Data limited to 111 Judaeo-Christian church bodies surveyed nationally. See source for county detail for each denomination]

County	Denominations	Churches	Communicant, confirmed members	Total adherents (estimated)		
				All groups	Catholics	Other groups 1/
State total	39	558	62,551	320,288	210,000	110,288
Hawaii	19	91	5,405	49,442	38,000	11,442
Maui	16	76	4,444	20,794	12,430	8,364
Kalawao	2	2	92	162	70	92
Honolulu	36	338	49,431	232,304	148,000	84,304
Kauai	17	51	3,179	17,586	11,500	6,086

1/ Major non-Catholic groups included the Church of Jesus Christ of Latter-Day Saints, 28,002 adherents; United Church of Christ, 20,787; Southern Baptist Convention, 13,336; and the Episcopal Church, 10,077.

Source: Bernard Quinn et al., Churches and Church Membership in the United States 1980 (1982), p. 78.

Table 44.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS AND COUNTIES: 1980 TO 1985

[April 1, 1980 to June 30, 1985. Provisional data. For 1970-1980, see Data Book 1985, table 45]

Military status and county	Net change	Vital events			Net migration 1/
		Natural increase	Live births	Deaths	
THE STATE					
State total	89,200	69,700	97,100	27,400	19,500
Armed forces	-700	-100	-	100	-500
Military dependents	300	19,900	20,300	400	-19,600
Other residents	89,600	50,000	76,800	26,800	39,600
Annual average	17,100	9,500	14,600	5,100	7,500
Percent distribution	100.0	55.8	...	...	44.2
COUNTIES					
City & Co. of Honolulu	52,100	54,700	75,000	20,300	-2,600
Armed forces	-700	-100	-	100	-500
Military dependents	300	19,900	20,300	400	-19,600
Other residents	52,500	34,900	54,700	19,700	17,600
Other counties	37,100	15,100	22,100	7,000	22,000
Hawaii	17,100	6,800	10,100	3,300	10,300
Kauai	5,700	2,700	4,100	1,400	3,000
Maui and Kalawao	14,300	5,500	7,900	2,400	8,800

1/ Includes net changes in military status.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1980-1985 (Statistical Report 190, July 2, 1986), table 8.

Table 45.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1983 TO 1985

Calendar year	Number arriving, by military status				Persons per party	Median age (years)
	Total	Military personnel	Military dependents	Other civilians		
1983	21,720	7,353	8,562	5,805	1.83	24.3
1984	27,050	10,410	12,150	4,490	1.88	23.9
1985	25,770	11,247	11,599	2,924	1.82	24.1

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1985 (Statistical Report 189, June 24, 1986), tables 1 and 2.

Table 46.-- IMMIGRANTS ADMITTED, BY PORT OF ENTRY: 1977 TO 1986

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence]

Year	All immigrants admitted 1/	Admitted through Honolulu 2/	Year	All immigrants admitted 1/	Admitted through Honolulu 2/
1977	7,825	5,375	1982	8,557	6,890
1978	9,053	5,870	1983	7,118	5,238
1979	8,944	6,882	1984	8,981	5,476
1980	(NA)	5,682	1985	7,868	5,599
1981	(NA)	6,422	1986	(NA)	5,748

NA Not available.

1/ Through any port of entry. Totals include non-immigrant arrivals who changed their status after entry.

2/ Totals exclude persons admitted through ports other Honolulu and also non-immigrant arrivals who changed their status after entry.

Source: All-port admissions from U.S. Immigration and Naturalization Service, records; admissions through Honolulu from INS Honolulu office, monthly tabulations.

Table 47.-- IMMIGRANTS ADMITTED, BY COUNTRIES OF BIRTH: 1982 TO 1985

[Years ended September 30. Data refer to immigrants admitted to the United States, reporting Hawaii as their State of intended permanent residence, and include non-immigrant arrivals who changed their status after entry]

Country of birth	1982	1983	1984	1985
All countries	8,557	7,118	8,981	7,868
Canada	84	109	97	130
China and Taiwan	650	676	825	799
Japan	(OC)	269	223	286
Korea	1,007	883	948	988
Philippines	4,748	4,070	4,662	4,231
Vietnam	597	139	795	280
Other countries	1,471	972	1,431	1,154

OC Included with "other countries."

Source: U.S. Immigration and Naturalization Service, data provided April 29, 1986.

Table 48.-- SOUTHEAST ASIAN REFUGEE ARRIVALS: 1980 TO 1984

Fiscal year ending September 30	Number
1980	2,385
1981	1,422
1982	642
1983	333
1984	291

Source: Data from U.S. Department of Health and Human Services, Office of Refugee Resettlement, cited in Statistical Abstract of the United States for 1984 (p. 94), 1985 (p. 88), and 1986 (p. 88).

Table 49 .-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1980 TO 1984

[Years ended September 30]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1980	3,473	278	606	1,992	80	517
1981	3,946	317	730	2,014	105	780
1982	2,750	176	520	1,489	66	499
1983	6,668	534	1,032	3,693	301	1,108
1984	6,448	289	787	4,200	192	980

Source: U.S. Immigration and Naturalization Service, records.

Table 50 .-- RESIDENCE ONE YEAR EARLIER, 1981 TO 1984, AND FIVE YEARS EARLIER, 1985

[Excludes persons in military group quarters. Based on a pooled sample of 2,435 households (7,512 persons of all ages) for 1981-1984 and a sample of 534 households (1,616 persons) for 1985]

Earlier residence	Residence 1 year earlier: annual average, 1981-1984 1/	Residence 5 years earlier: 1985 2/
Total population	960,402	921,236
Nonmovers	782,172	534,131
Different house, same State	129,081	252,978
Different State	39,473	107,359
Different country	9,676	26,768

1/ Excludes persons under 1 year old.
2/ Excludes persons under 5 years old.
Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1981 to 1985; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 51.--MIGRATION OF OLD-AGE AND SURVIVORS INSURANCE BENEFICIARIES, AGE 65 AND OVER, TO AND FROM HAWAII: 1962 TO 1982

[Excludes migration between Hawaii and foreign countries]

Year ended June 30 1/	Net migration	Migrated to Hawaii: From other States	Migrated to Hawaii: From U.S. possessions	Migrated from Hawaii but returned during same year 2/	Migrated from Hawaii: To other States	Migrated from Hawaii: To U.S. possessions
1962	+14	132	(NA)	2	118	(NA)
1965 3/...	-46	179	(NA)	38	22	(NA)
1967	+265	553	(NA)	78	288	(NA)
1968	+210	575	6	100	369	2
1969	+173	584	4	136	407	8
1970	223	548	7	108	328	4
1972	-110	1,439	10	138	1,556	3
1973	+66	671	7	268	602	10
1975	+108	674	14	187	579	1
1976	+304	785	18	120	493	6
1977	+136	810	18	134	685	7
1979	+355	995	22	159	658	4
1980	+171	803	12	133	634	10
1982	+128	1,466	37	294	1,348	27

NA Not available.

1/ Available only for years specified.

2/ Between Hawaii and other States only.

3/ Not adjusted for processing errors which considerably understated migration to Hawaii and somewhat understated migration from Hawaii.

Source: Data from U.S. Department of Health and Human Services, Social Security Administration, cited in the Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1983 (Statistical Report 170, October 17, 1984), tables 20 and 21.

Table 52.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1975 TO 1985

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Number, 1 year old and over			Percent of surveyed population 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1975	43,955	34,468	9,487	5.2	4.1	1.1
1976	42,977	33,611	9,366	5.0	3.9	1.1
1977	50,403	41,310	9,093	5.9	4.8	1.1
1978	49,295	39,970	9,325	5.7	4.6	1.1
1979	42,690	33,646	9,044	4.9	3.9	1.0
1980	37,312	30,082	7,230	4.0	3.2	0.8
1981	44,529	34,754	9,775	4.9	3.8	1.1
1982	46,342	38,683	7,659	4.8	4.0	0.8
1983	50,303	42,037	8,266	5.1	4.3	0.8
1984 3/ ..	48,341	42,533	5,808	4.9	4.3	0.6
1985	45,526	37,641	7,885	4.6	3.8	0.8
Civilian: 4/						
1975	20,557	13,886	6,671	2.8	1.9	0.9
1976	27,042	20,176	6,866	3.5	2.6	0.9
1977	25,477	19,555	5,922	3.4	2.6	0.8
1978	26,041	19,820	6,221	3.4	2.6	0.8
1979	22,191	15,278	6,913	2.8	1.9	0.9
1980	18,471	13,255	5,216	2.2	1.6	0.6
1981	23,756	16,272	7,484	2.9	2.0	0.9
1982	25,460	20,762	4,698	3.0	2.4	0.5
1983	22,908	17,199	5,709	2.6	2.0	0.7
1984 3/ ..	23,735	20,050	3,685	2.7	2.3	0.4
1985	17,779	13,036	4,743	2.1	1.5	0.6

1/ Base includes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

4/ Excludes military dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 53.-- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1984 AND 1985

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 17,206 persons 1 year old and over in 1984 and 17,642 persons 1 year old and over in 1985]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1984 1/				
Population 1 and over	981,541	37,489	61,039	883,013
Same house	831,929	22,245	36,022	773,662
Different house, same island	86,223	6,946	6,757	72,520
Different island	5,945	93	377	5,475
Different state	42,533	6,313	16,170	20,050
U.S. territory or possession	54	-	-	54
Different country	5,754	973	1,150	3,631
Previous residence not reported .	9,103	919	563	7,621
Migrants 2/	48,341	7,286	17,320	23,735
Percent of number reporting ...	5.0	20.0	28.6	2.7
1985				
Population 1 and over	998,283	44,932	81,604	871,747
Same house	847,476	28,743	55,265	763,467
Different house, same island	88,404	6,473	6,599	75,332
Different island	5,961	179	387	5,395
Different state	37,641	7,796	16,810	13,036
U.S. territory or possession	184	-	-	184
Different country	7,701	1,289	1,854	4,559
Previous residence not reported .	10,915	451	689	9,775
Migrants 2/	45,526	9,085	18,664	17,779
Percent of number reporting ...	4.6	20.4	23.1	2.1

1/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

2/ From different state, territory, or country.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 54.-- LIKELIHOOD OF OUT-MIGRATION, TOTAL AND CIVILIAN: 1980 TO 1985

[Based on the response to the question, "How likely is it that this person will be living some place other than Hawaii one year from today?" The sample excluded persons living in institutions or barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Cumulative number			Cumulative percent 1/		
	Some possibility 2/	Good chance 3/	Almost certain	Some possibility 2/	Good chance 3/	Almost certain
Total:						
1980	55,989	35,521	30,740	6.1	3.9	3.3
1981	55,159	39,431	34,857	5.9	4.2	3.7
1982	56,298	40,169	32,190	5.9	4.2	3.4
1983	55,019	37,697	30,661	5.7	3.9	3.2
1984 4/	56,401	44,237	35,995	5.7	4.5	3.6
1985	71,242	54,667	47,452	7.1	5.5	4.7
Civilian: 5/						
1980	32,216	15,375	12,102	3.9	1.9	1.5
1981	26,388	14,265	11,614	3.1	1.7	1.4
1982	31,664	17,467	13,087	3.7	2.0	1.5
1983	29,476	16,876	10,827	3.4	2.0	1.3
1984 4/	27,109	16,590	11,911	3.1	1.9	1.3
1985	28,052	14,623	12,010	3.2	1.7	1.4

1/ Based on number reporting likelihood.

2/ Reporting either "Some possibility of living elsewhere," "A good chance of living elsewhere," or "Almost certain to be living elsewhere."

3/ Reporting either "A good chance of living elsewhere" or "Almost certain to be living elsewhere."

4/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

5/ Excluding members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program.

Table 55 .-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1984 AND 1985

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 17,501 persons in 1984 and 17,934 persons in 1985. Excludes persons living in institutions or barracks, in Kalawao, or on Niihau]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1984 1/				
Total	1,003,320	37,489	67,083	898,748
Almost certain to be living in Hawaii	933,526	23,091	50,708	859,727
Some possibility of living elsewhere	12,164	965	680	10,519
A good chance of living elsewhere ...	8,242	2,951	1,870	3,421
Almost certain to be living elsewhere	35,995	9,563	13,263	13,169
Not reported	13,393	919	563	11,911
1985				
Total	1,015,300	44,932	86,760	883,609
Almost certain to be living in Hawaii	929,766	28,912	58,310	842,543
Some possibility of living elsewhere	16,575	897	2,248	13,429
A good chance of living elsewhere ...	7,215	1,445	3,157	2,613
Almost certain to be living elsewhere	47,452	13,101	22,341	12,010
Not reported	14,293	576	704	13,013

1/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1979-81 was 74.08 years for males and 80.33 years for females. There were 5,751 resident deaths in 1985, or 5.5 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 9.7 in 1985. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. Resident live births in 1985 numbered 18,267, or 17.3 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,871 in 1980. Fully 98 percent of all babies were born in hospitals in 1985, and 22 percent were born to military couples. One out of five births was to an unmarried woman. There were 7,068 fetal deaths in 1985, including 5,595 elective abortions. Marriages numbered 15,421 in 1985, with about 36 percent accounted for by nonresidents. Divorces reached a 1985 total of 4,887. The State had 23 acute care hospitals (with 2,870 beds), 33 long-term care facilities (with 2,769 beds), and nine specialty care facilities (with 956 beds) in 1986. There were 2,153 physicians and surgeons, 839 dentists, 6,392 professional nurses, and 465 pharmacists licensed and living in Hawaii as of January 1986. Acute conditions per 100 persons numbered 246 in 1985, with respiratory conditions the most common complaint (at 186 cases per 100 persons). Among chronic conditions reported in the 1985 survey data, the most frequently mentioned were hypertension without heart involvement (8.0 per 100 persons), hayfever (6.6), and impairments of the back or spine (5.1). The most common communicable diseases reported to authorities in 1985 were scarlet fever, with 5,036 cases, and gonorrhea, with 2,162, but the most fatal was AIDS (18 deaths). State mental health facilities served 8,891 patients in 1985, but the number of in-patients at the end of the year was only 251. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 reported one or more dental problems, chiefly cavities. Among persons 18 years old and over in 1984, 53 percent used alcohol, eight percent were heavy drinkers, 43 percent used drugs, and three percent were heavy drug users. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

The major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1986 contain similar data for the nation as a whole.

Table 56.-- BIRTHS AND DEATHS: 1970 TO 1985

			Rates per 1,000 resident population 2/		Rates per 1,000 live births 3/		
Calendar year	Resident births 1/	Resident deaths 1/	Births	Deaths	Illegitimate births	Fetal deaths 4/	Infant deaths 5/
1970 ...	16,361	3,971	21.2	5.1	95.8	20.6	19.1
1971 ...	15,780	4,130	19.7	5.2	88.4	23.5	16.0
1972 ...	15,364	4,245	18.5	5.1	93.0	22.8	17.5
1973 ...	15,328	4,356	18.0	5.1	104.0	16.4	13.7
1974 ...	15,472	4,286	17.8	4.9	108.8	16.3	16.0
1975 ...	15,689	4,272	17.7	4.8	123.2	18.9	13.7
1976 ...	16,292	4,349	18.0	4.8	125.0	20.8	11.2
1977 ...	16,874	4,349	18.4	4.7	143.3	21.6	12.3
1978 ...	16,717	4,508	17.9	4.8	160.1	13.5	12.0
1979 ...	17,513	4,791	18.4	5.0	163.5	13.1	10.9
1980 ...	18,129	4,903	18.7	5.1	175.6	15.3	10.8
1981 ...	18,174	4,927	18.5	5.0	181.8	13.1	10.5
1982 ...	18,675	5,123	18.7	5.1	186.3	12.7	8.9
1983 ...	19,090	5,409	18.7	5.3	197.8	11.5	10.0
1984 ...	18,667	5,571	18.0	5.4	191.8	10.0	10.9
1985 ...	18,267	5,751	17.3	5.5	201.3	9.7	9.1

1/ Events occurring in Hawaii. Data include births to military couples and deaths of armed forces and their dependents, but exclude nonresident births and deaths, as well as resident births and deaths occurring out of State.

2/ Based on estimates in DPED, Statistical Reports 172 and 190.

3/ Place of occurrence basis.

4/ 20 weeks gestation and over. Includes elective abortions.

5/ Under 1 year of age.

Source: Hawaii State Department of Health, Statistical Report (annual), and records.

Table 57.-- BIRTHS AND BIRTH RATES, BY MILITARY STATUS: 1975 TO 1985

[Place of occurrence basis]

Subject and year	All groups	Civilians			Armed forces and dependents
		All civilians	Military dependents	Other civilians	
Live births:					
1975	15,766	15,766	3,821	11,945	3,821
1976	16,409	16,409	3,803	12,606	3,803
1977	16,983	16,983	3,771	13,212	3,771
1978	16,762	16,762	3,656	13,106	3,656
1979	17,568	17,568	3,797	13,771	3,797
1980	18,216	18,216	3,750	14,466	3,750
1981	18,230	18,230	3,502	14,728	3,502
1982	18,735	18,735	4,007	14,728	4,007
1983	19,164	19,164	4,093	15,071	4,093
1984	18,756	18,756	3,976	14,780	3,976
1985	18,329	18,329	4,043	14,286	4,043
Birth rates: 1/					
1975	16.7	17.8	60.0	14.5	31.2
1976	16.9	18.0	56.8	14.9	30.5
1977	17.1	18.1	58.0	15.2	31.0
1978	16.5	17.5	59.8	14.6	30.6
1979	16.8	17.8	58.9	15.0	31.0
1980	17.3	18.3	58.5	15.5	30.7
1981	17.1	18.1	54.5	15.6	29.0
1982	17.2	18.1	60.1	15.2	33.0
1983	17.2	18.1	61.8	15.2	33.7
1984	16.5	17.3	59.3	14.6	32.0
1985	15.9	16.7	62.9	13.9	33.5

1/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 190.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 58.-- DEATHS AND DEATH RATES, BY MILITARY STATUS: 1975 TO 1985

[Place of occurrence basis]

Subject and year	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Deaths:						
1975	4,572	83	4,489	98	4,391	181
1976	4,717	67	4,650	99	4,551	166
1977	4,724	76	4,648	93	4,555	169
1978	4,852	80	4,772	85	4,687	165
1979	5,137	85	5,052	86	4,966	171
1980	5,204	69	5,135	82	5,053	151
1981	5,269	73	5,196	83	5,113	156
1982	5,495	74	5,421	86	5,335	160
1983	5,725	97	5,628	85	5,543	182
1984	5,942	73	5,869	86	5,783	159
1985	6,116	63	6,053	83	5,970	146
Death rates: 2/						
1975	4.8	1.4	5.1	1.5	5.3	1.5
1976	4.9	1.2	5.1	1.5	5.4	1.3
1977	4.8	1.3	5.0	1.4	5.2	1.4
1978	4.8	1.4	5.0	1.4	5.2	1.4
1979	4.9	1.5	5.1	1.3	5.4	1.4
1980	4.9	1.2	5.1	1.3	5.4	1.2
1981	4.9	1.3	5.2	1.3	5.4	1.3
1982	5.0	1.3	5.2	1.3	5.5	1.3
1983	5.1	1.8	5.3	1.3	5.6	1.5
1984	5.2	1.3	5.4	1.3	5.7	1.3
1985	5.3	1.1	5.5	1.3	5.8	1.2

1/ Death rates for military dependents based on 1970 and 1980 age and sex composition of military dependents and 1970 and 1980 age-sex-specific death rates for all civilians. Deaths of civilians other than military dependents calculated as residual.

2/ Per 1,000 de facto population in each group, based on estimates in DPED, Statistical Reports 172 and 190.

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 59.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1952 TO 1985

[Place of residence basis]

Calendar year	Total deliveries		Live births	Standard fetal deaths 2/	Elective abortions 2/
	Number	Rate 1/			
1952	16,208	31.3	15,618	590	...
1953	16,746	32.8	16,130	616	...
1954	17,015	33.7	16,222	793	...
1955	17,339	32.2	16,339	1,000	...
1956	18,266	32.7	17,142	1,124	...
1957	18,028	30.8	17,023	1,005	...
1958	17,647	29.2	16,726	921	...
1959	18,005	28.9	17,033	972	...
1960	18,197	28.4	17,177	1,020	...
1961	18,633	28.3	17,543	1,090	...
1962	19,126	28.0	17,912	1,214	...
1963	18,902	27.7	17,714	1,188	...
1964	18,462	26.4	17,262	3/ 1,200	...
1965	17,295	24.6	16,228	1,067	...
1966	15,814	22.3	14,920	894	...
1967	15,731	21.8	14,735	996	...
1968	15,567	21.2	14,470	1,097	...
1969	16,749	22.3	15,550	1,199	...
1970	20,578	26.7	16,361	1,458	2,759
1971	21,476	26.8	15,780	1,575	4,121
1972	21,468	25.9	15,364	1,582	4,522
1973	21,374	25.1	15,328	1,560	4,486
1974	21,071	24.3	15,472	1,572	4,027
1975	21,481	24.2	15,689	1,476	4,316
1976	22,915	25.3	16,292	1,675	4,948
1977	23,502	26.6	16,874	1,578	5,050
1978	23,990	25.8	16,717	1,467	5,806
1979	25,213	26.4	17,513	1,683	6,017
1980	26,241	27.1	18,129	1,716	6,396
1981	26,452	27.0	18,174	1,661	6,617
1982	26,468	26.5	18,675	1,618	6,175
1983	26,709	26.2	19,090	1,627	5,992
1984	25,573	24.7	18,667	1,629	5,277
1985	25,335	24.0	18,267	1,473	5,595

Continued on next page.

Table 59.-- LIVE BIRTHS, STANDARD FETAL DEATHS, AND ELECTIVE ABORTIONS: 1952 TO 1985 -- Con.

1/ Per 1,000 resident population, July 1. From DPED Statistical Reports 172 and 190.

2/ Most legal restrictions on abortion were abolished as of March 11, 1970. Prior to that time, the relatively few therapeutic, criminal, self-induced, and other elective abortions reported to the Department of Health were included with the counts of standard fetal deaths (for available data, see Robert C. Schmitt, Historical Statistics of Hawaii, table 2.5, p. 51).

3/ Place of occurrence total.

Source: Hawaii State Department of Health, Annual Report, Statistical Supplement, 1952-1985.

Table 60.-- BIRTHS AND DEATHS, BY PLACE OF OCCURRENCE AND RESIDENCE: 1982 TO 1985

Event and year	Occurring in Hawaii				Hawaii residents	
	Total	Resident	Non-resident	Not reported	Total	Out of State 1/
Births:						
1982 ...	18,734	18,675	57	2	18,704	29
1983 ...	19,164	19,090	73	1	19,124	34
1984 ...	18,756	18,667	89	-	18,706	39
1985 ...	18,329	18,267	62	-	18,302	35
Deaths:						
1982 ...	5,495	5,123	370	2	5,188	65
1983 ...	5,725	5,409	315	1	5,478	69
1984 ...	5,942	5,571	369	2	5,639	68
1985 ...	6,116	5,751	363	2	5,825	74

1/ Mainland U.S., U.S. territories and possessions, and Canada.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 61.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category]

Type of rate and military status	1960	1970	1980
Crude birth rate, all groups 1/	27.2	21.4	18.8
Civilian	22.9	19.1	16.5
Military	48.8	35.1	35.0
General fertility rate, all groups 2/	127.8	96.1	78.7
Civilian	106.2	84.8	68.9
Military	250.5	169.5	147.5
Total fertility rate, all groups 3/	3,886.5	2,728.5	2,084.0
Civilian	3,360.5	2,461.5	1,871.0
Military	6,480.5	4,275.0	3,496.0
Gross reproduction rate, all groups 4/ ...	1,884.0	1,318.0	1,006.5
Civilian	1,628.0	1,189.5	903.5
Military	3,140.0	2,065.5	1,688.0

1/ The annual number of live births per 1,000 resident population.

2/ The annual number of live births per 1,000 women of childbearing age.

3/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

4/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and special tabulations of decennial census data by military status.

Table 62.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1982 TO 1985

[Excludes births to Hawaii residents occurring out of state]

Subject	1982	1983	1984	1985
Number of resident births	18,675	19,090	18,667	18,267
City and County of Honolulu	14,400	14,712	14,375	14,021
Percent on Oahu	77.1	77.1	77.0	76.8
Hawaii County	1,963	1,921	1,895	1,873
Kauai County	830	836	778	778
Maui County (incl. Kalawao)	1,482	1,621	1,619	1,595
Percent attended by M.D. or O.D. in hospital 1/	98.0	98.1	98.3	98.0
Males per 100 females	105.8	107.4	107.1	108.2
Median weight of single births (grams)	3,278	3,292	3,293	3,307
Percent low birth weight (under 2,500 grams)	6.6	6.4	7.3	6.6
Percent single births under 40 weeks gestation	50.2	49.7	51.7	51.3
Percent plural	1.8	1.6	1.8	1.8
Percent with 1 or more congenital malformations	0.8	1.2	1.1	1.0
Percent illegitimate	18.6	19.8	19.2	20.0
Percent with prenatal visit in first three months	74.2	73.6	75.4	74.7
Percent first child born to mother	31.9	32.3	32.4	31.9
Percent first child born alive to mother	42.4	43.1	42.6	41.7
Median age of mothers (years)	26.1	25	25	26
Median age of known fathers (years)	28.8	29	29	29

1/ Place of occurrence basis.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 63.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1985

[Based on data for 18 specified races]

Military status of father	Total births	Unmixed	Mixed 1/			Not certain 2/
			Total	Part Haw'n	No Haw'n blood	
All groups	18,327	8,517	8,043	5,376	2,667	1,767
Military	4,043	3,112	925	203	722	6
Civilian 3/	14,284	5,405	7,118	5,173	1,945	1,761
PERCENT DISTRIBUTION						
All groups	100.0	46.5	43.9	29.3	14.6	9.6
Military	100.0	77.0	22.9	5.0	17.9	0.1
Civilian 3/	100.0	37.8	49.8	36.2	13.6	12.3

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other."

3/ Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Research and Statistics Office, July 10, 1986.

Table 64.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

[For earlier years, 1950-1970, see Data Book 1984, table 69]

Subject	15 years and over	15 to 24 years	25 to 34 years	35 to 44 years	45 years and over
All women	360,707	87,008	88,168	55,285	130,246
Childless	129,611	69,521	32,274	9,411	18,405
Mothers	231,096	17,487	55,894	45,874	111,841
Children ever born 1/	684,779	26,273	117,508	137,037	403,961
Per 1,000 women	1,898	302	1,333	2,479	3,102
Single (never married) women .	92,704	64,345	17,816	4,273	6,270
Childless	85,754	60,483	15,701	3,750	5,820
Mothers	6,950	3,862	2,115	523	450
Children ever born 1/	10,142	4,882	3,268	992	1,000
Per 1,000 single women :	109	76	183	232	159
Women ever married	268,003	22,663	70,352	51,012	123,976
Childless	43,857	9,038	16,573	5,661	12,585
Mothers	224,146	13,625	53,779	45,351	111,391
Children ever born 1/	674,637	21,391	114,240	136,045	402,961
Per 1,000 women ever married	2,517	944	1,624	2,667	3,250

1/ Excluding stillbirths.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 65.-- MEDIAN AND MEAN AGE OF MOTHERS, BY MILITARY STATUS OF FATHERS, FOR RESIDENT BIRTHS OCCURRING IN HAWAII: 1960 TO 1984

Year	Median age (years)			Mean age (years)		
	All births	Military	Civilian	All births	Military	Civilian
1960 1/ ...	26.0	...	...	26.7	...	...
1970	25.0	24.3	25.4	25.8	25.2	25.9
1980	26.0	24.6	26.4	26.3	25.2	26.6
1984	26.3	24.5	26.9	26.7	25.3	27.1

1/ Includes nonresident births occurring in Hawaii. Not available by military status.

Source: Calculated by DPED from tabulations by 5-year age periods supplied by Hawaii State Department of Health, January 8, 1986.

Table 66 .-- MOST COMMON NAMES ON BIRTH CERTIFICATES, BY SEX: 1985

[A total of 5,126 first names, including variant spellings, was reported for the 18,329 babies born in Hawaii in 1985. For leading names in 1909-1914, 1950, and 1983, see Data Book 1984, table 72]

Rank	Boys' names		Girls' names	
	Name	Number	Name	Number
1	Christopher	240	Ashley	172
2	Michael	238	Jennifer	169
3	Joshua	182	Jessica	151
4	Justin	159	Nicole	133
5	Matthew	143	Tiffany	82
6	Daniel	139	Michelle	78
7	David	137	Sarah	76
8	Ryan	130	Melissa	75
9	Brandon	129	Amanda	72
10	John	128	Kimberly	72
11	Jason	125	Rachel	72

Source: Hawaii State Department of Health, Research and Statistics Office, printout dated April 23, 1986.

Table 67 .-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1975 AND 1985

Rank	1985		1975	
	Name	Columns	Name	Columns
1	Lee	20.0	Lee	18.0
2	Wong	16.75	Wong	16.5
3	Young	11.5	Young	11.5
4	Chang	10.5	Chang	10.5
5	Chun (tie)	9.75	Chun	10.0
6	Smith (tie) ...	9.75	Smith	9.5
7	Kim (tie)	9.75	Nakamura	9.0
8	Ching	8.5	Ching	8.5
9	Lum	7.67	Lum	8.0
10	Nakamura	7.33	Yamamoto; Tanaka (tie)	6.5

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 22, 1975 p. A-3, and January 16, 1985, p. A-3.

Table 68 .-- LIFE EXPECTANCY AT BIRTH FOR BOTH SEXES COMBINED, BY RACE: 1910 TO 1980

[In years]

Year	All races	Caucasian	Chinese	Filipino	Hawaiian and Part-Hawaiian	Japanese	Other
1910 ..	43.96	54.83	54.17	(NA)	32.58	49.34	15.62
1920 ..	45.69	56.45	53.80	28.12	33.56	50.54	28.38
1930 ..	53.95	61.90	60.07	46.14	41.87	60.07	32.58
1940 ..	62.00	64.03	65.32	56.85	51.78	66.28	59.48
1950 ..	69.53	69.21	69.74	69.05	62.45	72.58	68.29
1960 ..	72.42	72.80	74.12	71.53	64.60	75.68	62.19
1970 ..	74.20	73.24	76.11	72.61	67.62	77.44	76.74
1980 ..	78.02	76.38	80.24	78.78	74.01	79.66	76.58

NA Not available.

Source: Hawaii State Department of Health, Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R & S Report, No. 47, March 1984), p. 7.

Table 69.-- AVERAGE LIFETIME, BY SEX: 1959-61, 1969-71, AND 1979-81

Period	Years			Rank (50 States and D.C.)		
	Both sexes	Male	Female	Both sexes	Male	Female
1959-1961	71.55	69.79	74.01	7	(NA)	(NA)
1969-1971	73.60	71.02	76.79	1	1	3
1979-1981 1/ .	77.02	74.08	80.33	1	1	1

NA Not available.

1/ Average lifetime for all States combined was 73.88 years for both sexes combined, 70.11 years for males, and 77.62 years for females.

Source: U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, Life Tables: 1959-61, Vol. 2, No. 12, Hawaii State Life Tables: 1959-61 (June 1966), p. 160, and unpublished tabulations; U.S. Department of Health, Education, and Welfare, National Center for Health Statistics, U.S. Decennial Life Tables for 1969-71, Vol. II, No. 12, Hawaii State Life Tables: 1969-71 (June 1975), p. 12-6; and U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii (December 1985), p. 12-3.

Table 70.-- SELECTED LIFE TABLE VALUES, BY SEX: 1979-1981

	Of 100,000 born alive				Average remaining lifetime (years)	
	Number living at beginning of year of age		Number dying during year of age			
Age in years	Male	Female	Male	Female	Male	Female
0-1	100,000	100,000	1,121	889	74.08	80.33
1-2	98,879	99,111	93	64	73.92	80.05
5-6	98,607	98,920	38	25	70.11	75.20
10-11 ...	98,467	98,828	17	13	65.21	71.27
15-16 ...	98,303	98,733	81	34	60.31	66.34
20-21 ...	97,755	98,513	137	54	55.64	61.48
25-26 ...	97,054	98,235	131	52	51.02	56.65
30-31 ...	96,430	97,981	132	58	46.34	51.79
35-36 ...	95,720	97,644	155	85	41.66	46.96
40-41 ...	94,857	97,134	218	133	37.02	42.19
45-46 ...	93,529	96,341	327	190	32.50	37.52
50-51 ...	91,508	95,250	582	277	28.16	32.92
55-56 ...	88,125	93,616	759	420	24.14	28.44
60-61 ...	83,935	91,126	1,051	629	20.22	24.15
65-66 ...	77,746	87,417	1,483	930	16.61	20.06
70-71 ...	69,466	81,987	1,962	1,331	13.28	16.21
75-76 ...	58,516	74,108	2,536	2,009	10.28	12.65
80-81 ...	44,728	62,633	3,084	2,725	7.66	9.49
85-86 ...	28,579	47,208	3,168	3,831	5.56	6.73
90-91 ...	13,630	27,228	2,454	3,681	3.99	4.84
95-96 ...	4,201	11,023	1,099	2,405	2.98	3.48
100-101 .	779	2,701	248	761	2.49	2.81
105-106 .	101	448	36	147	2.22	2.44

Source: U.S. Department of Health and Human Services, National Center for Health Statistics, U.S. Decennial Life Tables for 1979-81, Vol. II, State Life Tables, No. 12, Hawaii, DHHS Pub. No. (PHS) 86-1151-12 (December 1985), tables 2 and 3.

Table 71.-- DEATHS OCCURRING IN HAWAII, BY PLACE OF DEATH: 1968 AND 1985

Year	All deaths	Hos-pital	Nursing or care home	Other specif. places 1/	Home, street, etc.	Un-known
1968	4,275	3,274	152	113	736	-
1985	6,116	4,195	442	143	1,334	2

1/ Clinic, doctor's office, enroute to Hawaii, etc.

Source: Hawaii State Department of Health, Research and Statistics Office, special tabulation.

Table 72.-- CHARACTERISTICS OF RESIDENT DEATHS: 1982 TO 1985

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1982	1983	1984	1985
Number of resident deaths	5,123	5,409	5,571	5,751
City and County of Honolulu	3,769	4,070	4,122	4,294
Hawaii County	592	590	707	715
Kauai County	280	284	272	256
Maui County (incl. Kalawao)	482	465	470	486
Males per 100 females	143.6	143.1	146.7	146.3
Median age (years)	69.4	70.6	71.1	71.9
Percent married	47.2	48.4	47.4	47.5
Deaths under 1 year	158	175	186	159
Per 1,000 live births	8.5	9.2	10.0	8.7
Fetal deaths 1/	7,793	7,619	6,906	7,068
Per 1,000 deliveries	294	285	270	279
Fetal deaths, 20 or more weeks gestation 2/	262	219	178	177
Per 1,000 live births	14.0	11.4	9.5	9.7
Standard fetal deaths 3/	1,618	1,627	1,629	1,473
Elective abortions	6,175	5,992	5,277	5,595
Per 1,000 live births	331	313.9	282.7	306.3

1/ Includes elective abortions.

2/ Place of occurrence basis. Includes elective abortions if 20 weeks or more.

3/ Excludes elective abortions.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 73.-- MAJOR CAUSES OF DEATH: 1925 TO 1985

Year	All causes	Major causes 1/				
		Diseases of the heart	Malignant neoplasm	Cerebro-vascular disease	Influenza and pneumonia	Tubercu-losis
Number of deaths:						
1925	4,108	326	205	162	568	389
1935	3,306	428	262	172	340	291
1945	3,396	587	388	213	156	284
1955	3,124	1,033	550	273	86	33
1965	3,592	1,237	743	310	120	25
1975	4,272	1,395	929	387	160	14
1985	5,751	1,860	1,421	430	254	8
Percent of total:						
1925	100.0	7.9	5.0	3.9	13.8	9.5
1935	100.0	13.0	7.9	5.2	10.3	8.8
1945	100.0	17.3	11.4	6.3	4.6	9.9
1955	100.0	33.1	17.6	8.7	2.8	1.1
1965	100.0	34.4	20.7	8.6	3.3	0.7
1975	100.0	32.6	21.7	9.1	3.7	0.3
1985	100.0	32.3	24.7	7.5	4.4	0.1
Rate: 2/						
1925	1,260	100	63	50	174	119
1935	849	110	67	44	87	75
1945 3/	417	72	48	26	19	35
1955	579	192	102	51	16	6
1965	510	176	106	44	17	4
1975	482	157	105	44	18	2
1985	546	176	135	41	24	1

1/ Among three leading causes in one or more listed years.

2/ Per 100,000 resident population, from Historical Statistics of Hawaii (1977), p. 10, and DPED Statistical Reports 172 and 190.

3/ Rates affected by large military population stationed in Hawaii.

Source: Hawaii State Department of Health, Statistical Report for 1965 (p. 37) and 1975 (pp. 24-25), and records.

Table 74 .-- CAUSE OF DEATH, BY SEX: 1985

[Place of residence basis]

Cause of death	Both sexes	Males	Females
Total deaths	5,751	3,416	2,335
Tuberculosis	8	5	3
Syphilis	-	-	-
Other infective	61	40	21
Malignant neoplasm	1,421	869	552
Digestive organs	467	304	163
Respiratory system	324	237	87
Breast	109	1	108
Genital organs	142	77	65
Urinary organs	40	29	11
Leukemia	61	35	26
Other	278	186	92
Diabetes mellitus	138	74	64
Heart disease	1,860	1,125	735
Rneumatic	19	10	9
Hypertensive	71	35	36
Ischemic	1,114	689	425
Other heart	656	391	265
Hypertension	19	7	12
Cerebrovascular disease	430	214	216
Arteriosclerosis	61	26	35
Aneurysm	42	30	12
Other circulatory	17	10	7
Influenza/pneumonia	254	144	110
Bronchitis/emphysema/asthma	61	34	27
Peptic ulcer	15	11	4
Cirrhosis of liver	78	56	22
Nephritis and nephrosis	53	31	22
Pregnancy, birth & puerperium	2	-	2
Congenital anomalies	55	28	27
Perinatal conditions	77	40	37
Ill-defined conditions	55	30	25
Other diseases	645	364	281
Accidents	235	168	67
Motor vehicles	127	89	38
Other	108	79	29
Suicide	95	66	29
Homicide & legal intervention	36	21	15
Other external causes	33	23	10

Source: Hawaii State Department of Health, Research and Statistics Office, records.

Table 75.-- DEATHS OCCURRING IN HAWAII, BY RACE AND METHOD OF DISPOSITION: 1985

Race	All methods	Burial	Cremation	Removal	All others 1/
All races	6,116	2,610	2,886	586	34
Caucasian, except Port. 2/	1,716	389	1,000	320	7
Hawaiian	245	186	43	15	1
Part Hawaiian	736	497	194	41	4
Chinese	381	290	68	14	9
Filipino	807	662	92	50	3
Japanese	1,637	205	1,394	34	4
Puerto Rican	68	56	8	4	-
Korean	91	55	32	3	1
Samoan	60	45	3	11	1
Portuguese	221	193	17	7	4
Black	60	14	12	34	-
Pacific Islander 3/	63	10	2	51	-
Others 4/	22	8	12	2	-
Not reported	9	-	9	-	-

1/ Includes entombment (27) and not reported (7).

2/ Includes Cuban (1) and Mexican (9).

3/ Includes Guamanian (14).

4/ Includes American Indian (8), Vietnamese (5), and other Asian (9).

Source: Hawaii State Department of Health, Research and Statistics Office, July 10, 1986.

Table 76.-- CATASTROPHIC MORTALITY: 1977 TO 1986

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979. Complete through September 30, 1986]

Date		Place	Kind of disaster	Deaths
1977:	April 13 1/ ...	At sea off Waikiki	Airplane crash	5
1978:	Dec. 9 (?)	At sea off West Hawaii .	Ship disappearance ..	10
1979:	Feb. 11 (?) ...	At sea out of Hana	Boat disappearance ..	5
	Nov. 24	Near Wahiawa, Oahu	2-car auto crash	5
1980:	May 18	Molokai	Helicopter crash	7
1981:	Dec. 5	Pearl Harbor	Airplane crash	11
1982:	July 24	Near Wahiawa, Oahu	3-car auto crash	5
1983:	June 16	Honopu, Kauai	Airplane crash	14
1985:	Jan. 15	540 mi. N. of Honolulu .	Helicopter crash	7

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DPED Library, 1976.

Source: DPED file of newspaper accounts.

Table 77.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1984 AND 1985

Date		State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1984:	June 30	1,856	1,523	122	58	153
1985:	June 30	1,899	1,565	127	54	153

Source: Hawaii State Department of Social Services and Housing, Services for the Blind Branch, data provided December 23, 1985.

Table 78 .-- PERCENT OF ADULT POPULATION AFFECTED BY SPECIFIED HEALTH RISK FACTORS, BY ISLANDS: MAY-JUNE 1984

[Excludes inmates of institutions, armed forces living on military bases, and all persons less than 18 years old]

Health risk factor	State	Hawaii	Maui	Mol., Lanai	Oahu	Kauai
Inadequate seatbelt use ...	41	52	56	64	37	54
Hypertension	18	20	20	23	17	12
Lack of exercise	38	40	29	34	40	43
Diet factors	16	21	17	25	16	19
Smoking	26	27	38	23	24	25
Acute drinking	22	18	37	20	22	23
Chronic drinking	13	15	26	17	12	14
Drinking and driving	6	4	17	11	5	9

Source: Hawaii State Department of Health, Hawaii Health Messenger, Fall 1985, p. 1.

Table 79.-- ACUTE CONDITIONS: 1985

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,498,748	246.1
Infective parasitic diseases	119,804	11.8
Respiratory condition	1,888,518	186.0
Digestive system condition	48,062	4.7
Injuries	198,540	19.6
All other acute conditions	243,823	24.0

Source: Hawaii State Department of Health, Statistical Report 1985, p. 86.

Table 80.-- CHRONIC CONDITIONS: 1985

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	24,342	24.0
Impairment of back or spine	51,849	51.1
Hypertension without heart involvement	81,357	80.1
Arthritis/rheumatism	34,190	33.7
Hearing impairment	36,518	36.0
Asthma with or without hayfever	38,574	38.0
Diabetes	21,202	20.9
Mental and nervous condition	16,752	16.5
Visual impairment	12,081	11.9
Malignant neoplasms	8,487	8.4
Chronic and allergic skin conditions	38,826	38.2
Chronic sinusitis	26,379	26.0
Hayfever without asthma	66,918	65.9
Stomach ulcer	9,464	9.3
Bronchitis/emphysema	15,228	15.0
Benign and unspecified neoplasms	4,365	4.3
Hemorrhoids	14,270	14.1
Thyroid/goiter	4,126	4.1
Varicose veins	7,741	7.6
Gout	12,755	12.6

Source: Hawaii State Department of Health, Statistical Report 1985, pp. 68-69.

Table 81.-- LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1983 AND 1985

Type of limitation	1983	1985
Persons with one or more chronic conditions	336,694	388,072
No limitation of activity	282,116	337,049
Limited, but not in major activity	24,264	23,927
Limited in amount or kind of activity	19,832	18,257
Unable to carry on major activity	10,482	8,839
Restricted days in past 12 months 1/	12,788,125	14,075,272
Per person 2/	13.0	13.9
Bed days in past 12 months	4,114,394	5,078,905
Per person 2/	4.2	5.0
Work days lost by persons 17 years of age and older in past 12 months	1,411,259	(NA)
Per employed person 17 years and older 2/	3.5	(NA)
School days lost by persons 6 to 16 years of age in past 12 months	570,945	782,256
Per pupil 6 to 16 years of age 2/	3.3	4.3

NA Not available.

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: State Department of Health, Statistical Report 1985, pp. 83 and 91-93, and Hawaii Health Surveillance Survey Program, special tabulation.

Table 82.-- SPECIFIED COMMUNICABLE DISEASES: 1983 TO 1985

Disease	Cases			Deaths		
	1983	1984	1985	1983	1984	1985
All reportable diseases ..	11,309	8,512	11,377	23	35	38
Acquired Immunodeficiency Syndrome (AIDS) 1/	10	16	36	9	10	18
Chickenpox	1,442	834	1,494	-	-	-
Gonorrhea	2,886	2,664	2,162	-	-	-
Hansen's Disease	46	105	31	-	5	-
Hepatitis, all types	153	130	260	1	6	7
Influenza	494	328	1,009	1	-	-
Measles (Rubeola)	2	142	31	-	-	-
Meningitis, all types	319	147	175	2	3	5
Mumps	20	22	19	-	-	-
Rubella	1	5	44	-	-	-
Salmonellosis	335	380	337	-	-	-
Scarlet fever, other strep. ...	4,814	2,973	5,036	-	-	-
Syphilis	159	150	123	-	-	-
Tuberculosis	236	218	189	10	11	8
All others	392	398	431	-	-	-

1/ The earliest officially recorded case of AIDS in Hawaii was a 52-year old Oriental woman, who was diagnosed in May 1978 and who died in August 1978. The second case was an infant, infected by a blood transfusion on the Mainland in January 1982, who died later that month. The third case was a male homosexual, who was diagnosed in January 1982 and who died in February 1984. The third AIDS death occurred in August 1982. In this table, AIDS deaths are reported by year of diagnosis rather than year of occurrence.

Source: Hawaii State Department of Health, Statistical Report, 1985, pp. 124 and 127, and memorandum from Roy G. Ohye, Acting Chief, Epidemiology Branch, dated April 3, 1986.

Table 83.-- ALCOHOL AND DRUG USE, BY AGE AND SEX: 1984

[Based on a sample of persons 18 and over on the four largest islands]

Substance, sex, and age	Sample size	Use (percent of group)				
		None 1/	Light	Moderate	Moderately heavy	Heavy
Alcohol 2/						
Total	2,503	47.3	24.4	12.9	7.3	8.1
Sex:						
Male	1,078	32.3	21.8	17.5	11.5	13.9
Female	1,412	56.4	26.4	9.4	4.1	3.7
Age:						
18 to 24 years	426	42.7	25.6	15.3	7.5	8.9
25 to 34 years	426	37.5	29.2	15.6	7.5	8.9
35 to 44 years	479	44.5	28.6	13.8	6.1	7.1
45 to 54 years	326	51.5	24.2	9.2	6.8	8.3
55 to 64 years	367	55.3	19.1	10.9	7.1	7.6
65 to 74 years	226	61.5	13.7	11.5	7.5	5.8
75 years and over .	82	67.1	14.6	3.7	6.1	8.5
Drugs 3/						
Total	2,503	57.0	6.5	30.8	2.6	3.1
Sex:						
Male	1,073	55.7	8.1	29.9	2.7	3.5
Female	1,411	57.8	5.2	31.7	2.5	2.8
Age:						
18 to 24 years	424	41.7	12.5	38.0	3.5	4.3
25 to 34 years	594	44.4	10.9	35.0	5.1	4.6
35 to 44 years	479	57.0	6.3	32.6	1.5	2.7
45 to 54 years	326	66.3	2.2	28.2	0.9	2.5
55 to 64 years	367	73.0	1.6	21.0	1.9	2.5
65 to 74 years	225	76.4	0	21.3	1.3	0.9
75 years and over .	82	63.4	0	34.2	1.2	1.2

1/ For alcohol use, includes both non-drinkers and infrequent drinkers.

2/ Based on total ethanol consumption.

3/ Based on frequency of use, weighted by degree of danger to users, for marijuana/hashish, tranquilizers, barbituates, inhalants, LSD, PCP, cocaine, amphetamines, heroin, and morphine/codeine/percodan/demoral.

Source: Jonathan S. Raymond, Sharon Murakami, and Frank Ahern, Toward an Epidemiology of Mental Health and Alcohol and Drug Use in Hawaii (September 1985), tables 7 and 11.

Table 84.-- NUMBER AND BED CAPACITY OF HOSPITALS, BY TYPE OF FACILITY, BY ISLANDS: 1986

[Except for Tripler Army Medical Center, data are for facilities recognized by the Hawaii State Health Planning and Development Agency]

Category and island	All facilities 1/	Acute care 2/	Long-term care	Specialty care
NUMBER OF FACILITIES				
State total ..	48	23	33	9
Oahu	32	10	20	7
Hawaii	6	5	6	-
Kauai	3	3	3	-
Maui	4	3	2	1
Molokai	2	1	1	1
Lanai	1	1	1	-
NUMBER OF BEDS				
State total ..	6,595	2,870	2,769	956
Oahu	5,083	2,318	1,841	924
Hawaii	664	260	404	-
Kauai	281	117	164	-
Maui	499	153	338	8
Molokai	54	16	14	24
Lanai	14	6	8	-

1/ Institutions providing more than one kind of care are counted only once.

2/ Includes Tripler Army Medical Center which had a bed capacity of 509 (plus 52 nursery beds).

Source: Hawaii State Department of Health, Statistical Report, 1985, pp. 103 and 104.

Table 85.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS, BY ISLANDS: 1985

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	84,473	1,566	6.8	66.3
Oahu	61,416	1,284	6.5	67.7
Hawaii	10,313	122	4.3	48.3
Kauai	4,909	59	4.4	50.0
Maui	7,406	97	4.8	62.6
Molokai	331	3	3.1	17.3
Lanai	98	1	2.9	12.9
LONG-TERM CARE				
State total	2,575	2,590	367	93.5
Oahu	1,522	1,720	412	97.2
Hawaii	490	385	287	95.3
Kauai	254	136	195	91.1
Maui	281	328	427	97.0
Molokai	19	14	260	96.8
Lanai	9	7	276	84.9

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1985, pp. 104-107; state totals estimated by Hawaii State Department of Planning and Economic Development.

Table 86 .-- COMMUNITY HOSPITAL AVERAGE COSTS AND ROOM CHARGES: 1978 TO 1985

Year	Average length of stay (days)	Average cost to hospital		Hospital semiprivate room charges 1/ (dollars)
		Per patient day (dollars)	Per patient stay (dollars)	
1978	7.3	232.60	1,698	103.81
1979	7.5	263.70	1,978	114.34
1980	7.5	245.80	1,844	126.98
1981	7.9	276.80	2,187	141.09
1982	8.3	307.30	2,551	176.24
1983	8.2	357.87	2,964	215.84
1984	(NA)	(NA)	(NA)	224.31
1985	(NA)	(NA)	(NA)	230.82

NA Not available.

1/ January data, except 1983, which refers to July.

Source: Health Insurance Association of America, Source Book of Health Insurance Data (annual).

Table 87.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1980 TO 1985

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1980	6,655	431	6,224	5,136	4,779	4,809	10,718
1981	6,642	408	6,213	4,947	4,474	5,062	10,689
1982	6,287	336	5,951	4,885	4,163	5,155	10,312
1983	6,022	303	5,719	4,761	4,112	5,030	9,970
1984 1/ ...	5,692	337	5,355	4,307	3,845	4,887	9,724
1985	6,328	251	6,077	3,933	3,268	4,221	8,891

1/ Year ended June 30.

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 88.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1981 TO 1986

[Hawaii State Hospital is the only public psychiatric hospital in Hawaii]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital 2/	
		Total	First	Average 1/	June 30
1981	220	804	322	214	222
1982	220	990	402	226	221
1983	220	1,070	445	239	243
1984	220	744	276	221	240
1985	220	647	514	220	224
1986 3/ .	240	738	611	263	272

1/ Year ended June 30.
2/ Includes patients on leave and absent without leave.
3/ Includes children's unit at Leahi Hospital assigned to the Hawaii State Hospital effective July 1, 1985.
Source: Hawaii State Hospital, records.

Table 89.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1981 TO 1986

[Waimano Training School and Hospital is the State institution for the mentally retarded]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1981	575	7	406	397	635
1982	575	6	387	385	621
1983	426	10	365	375	614
1984	410	2	356	364	603
1985	410	2	354	360	586
1986	410	-	331	333	593

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.
Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 90.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1981 TO 1985

Subject	1981	1982	1983	1984	1985
Patients on register, Dec. 31 ..	506	550	578	661	651
Medically released	506	550	578	661	651
At home	385	432	462	555	545
Kalaupapa	115	112	110	101	101
Hale Mohalu or Leahi	6	6	6	5	5
Net annual change	32	44	28	83	-10
New cases added	49	49	41	43	31
Cases returned to register ...	4	11	5	58	4
Deaths	6	4	6	15	10
Left the State	1	12	12	5	39
Discharged	14	-	-	-	-
Registry correction (net)	-	-	-	+2	+4

Source: Hawaii State Department of Health, Statistical Report, 1985, pp. 129-130.

Table 91 .-- SELECTED HEALTH SERVICES (SIC 801-803): 1982

[Includes only establishments with payroll]

Service	Establishments	Receipts ($1,000)	Annual payroll 1/ ($1,000)	Paid employees, 1/ mid-March
Offices of physicians	889	229,507	97,872	3,830
Offices of osteopathic physicians	13	1,533	626	31
Offices of dentists	488	99,175	36,856	2,420
With in-house laboratories	75	16,808	(NA)	(NA)
Medical and dental laboratories ..	58	18,838	8,055	497
Medical laboratories	21	12,685	5,227	313
Dental laboratories	37	6,153	2,828	184

NA Not available.

1/ For data by occupation, see source.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 25-29.

Table 92.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified ...	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite ...	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone ..	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.
2/ Some respondents reported two or more categories.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 93.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JANUARY 22, 1986

Place of address	Physicians and surgeons 1/	Dentists	Registered nurses	Pharmacists
Total licensed	3,624	1,107	8,289	749
Hawaii addresses ...	2,153	839	6,392	465
Hawaii	172	72	525	35
Maui	149	48	481	37
Lanai	4	1	7	1
Molokai	8	5	32	3
Oahu	1,739	689	5,097	370
Kauai	81	24	250	19
Niihau	-	-	-	-
Out of State	1,471	268	1,897	284

1/ Permanent licenses only. Does not include interns, residents, or physicians who provided State government services only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, data provided February 14 and 20, 1986.

Table 94.-- MARRIAGES AND DIVORCES: 1970 TO 1985

[Place of occurrence basis]

Calendar year	Marriages		Divorces and annulments 2/	Rates per 1,000 resident population 3/		Percent of marriages	
	Total	Resident 1/		Resident marriages	Divorces, annulments 2/	Nonresident 4/	Interracial
1970 ...	10,599	7,889	2,589	10.2	3.4	25.6	33.7
1971 ...	9,734	8,104	3,691	10.1	4.6	16.7	38.7
1972 ...	9,750	8,482	3,891	10.2	4.7	13.0	38.6
1973 ...	9,776	8,656	4,170	10.2	4.9	11.5	40.6
1974 ...	9,649	8,500	4,111	9.8	4.7	11.9	40.1
1975 ...	9,673	8,440	4,265	9.5	4.8	12.7	39.6
1976 ...	9,769	8,318	4,712	9.2	5.2	14.9	38.8
1977 ...	10,266	8,427	4,601	9.2	5.0	17.9	37.5
1978 ...	10,736	8,650	4,837	9.3	5.2	19.4	37.9
1979 ...	11,678	9,424	5,055	9.9	5.3	19.3	38.2
1980 ...	11,856	9,442	4,438	9.7	4.6	20.4	37.6
1981 ...	12,218	9,445	4,253	9.6	4.3	22.7	36.1
1982 ...	13,483	10,053	4,233	10.1	4.2	25.4	35.7
1983 ...	14,062	10,216	4,583	10.0	4.5	27.3	35.5
1984 ...	14,982	10,020	4,769	9.7	4.6	33.3	33.4
1985 ...	15,421	9,893	4,887	9.4	4.6	35.8	33.6

1/ One or both partners residents of Hawaii.

2/ Final decrees only. An interlocutory decree of six months was abolished July 1, 1971.

3/ Based on estimates in DPED, Statistical Reports 172 and 190.

4/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 95.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1982 TO 1985

[Place of occurrence basis]

Subject	1982	1983	1984	1985
MARRIAGES				
Number	13,483	14,062	14,982	15,421
Percent on Oahu	70.5	69.8	66.8	64.5
Percent Hawaii residents:				
Both bride and groom	70.0	67.5	61.7	59.4
One partner only	4.6	5.2	5.2	4.7
Neither bride nor groom	25.4	27.3	33.1	35.8
Median age (years):				
Groom	28.8	29.0	29.7	29.9
Bride	26.6	26.8	27.5	27.8
Percent previously married:				
Groom	36.7	36.6	38.3	39.3
Bride	36.2	36.8	38.8	39.1
DIVORCES AND ANNULMENTS				
Number 1/	4,233	4,583	4,769	4,887
Divorces	4,219	4,573	4,758	4,875
Annulments	11	10	11	12
Percent occurring on Oahu	77.0	76.1	79.2	77.2
Percent nonresident:				
Husband	12.1	12.2	13.0	12.3
Wife	12.4	11.8	12.8	12.4
Neither partner	75.7	76.1	74.2	75.3
Median age (years):				
Husband	33.8	33.4	33.9	34.3
Wife	31.2	30.8	31.3	32.0
Percent interracial 2/	35.7	39.9	41.1	39.0
Percent with children under 18 years	54.0	54.4	54.0	55.6
Median years married	6.3	5.4	6.1	6.3

1/ Includes unspecified type of decree.

2/ For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 96.-- AGE DIFFERENCE IN RESIDENT MARRIAGES AND DIVORCES, BY RACE OF PARTNERS: 1984

[Excludes marriages and divorces in which both partners were nonresidents of Hawaii]

Age difference (years)	Resident marriages			Resident divorces		
	Total	Same race	Diff. races	Total	Same race	Diff. races
Total	10,020	5,376	4,644	4,768	2,781	1,987
Man older:						
20 or more	163	95	68	91	50	41
10 to 19	860	426	434	350	178	172
5 to 9	1,802	918	884	832	463	369
1 to 4	3,512	1,937	1,575	1,842	1,127	715
Both same age ...	1,042	627	415	567	368	199
Woman older:						
1 to 4	1,798	992	806	697	401	296
5 to 9	594	272	322	220	107	113
10 or more	249	109	140	94	42	52
Not available ...	-	-	-	75	45	30
Median difference:						
Absolute	3.5	3.3	3.7	3.3	3.1	3.6
Algebraic 1/ ..	2.0	1.9	2.1	2.2	2.1	2.3

1/ Age of groom less age of bride. All values are positive; for example, one-half of all resident marriages involved grooms at least 2.0 years older than their brides.

Source: Hawaii State Department of Health, data provided January 27, 1986.

Table 97 .-- MARRIAGES OCCURRING IN HAWAII, RESIDENT AND NONRESIDENT, BY RACE MIXTURE AND TYPE OF CEREMONY: 1985

Race mixture and type of ceremony	Total	At least one partner Hawaii resident	Both partners nonresidents
All marriages	15,421	9,893	5,528
Race of bride and groom:			
Both partners same	10,233	5,255	4,978
Different	5,188	4,638	550
Percent different	33.6	46.9	9.9
Type of ceremony:			
Civil	5,153	4,150	1,003
Religious	10,268	5,743	4,525
Percent civil	33.4	41.9	18.1

Source: Hawaii State Department of Health, Research and Statistics Office, special tabulations.

Table 98.-- PERSONAL HEALTH CARE EXPENDITURES: 1966 AND 1982

Type of expenditure	Total (million dollars)		Per capita (dollars)	
	1966	1982	1966	1982
All expenditures	147.9	1,224.4	208	1,228
Hospital care	56.4	477.6	79	479
Physicians' services	33.3	374.5	47	376
Dentists' services	14.2	133.0	20	133
Other professional services ..	3.1	20.8	4	21
Drugs and medical sundries ...	19.2	92.9	27	93
Eyeglasses and appliances	4.1	22.6	6	23
Nursing home care	4.2	62.8	6	63
Other health services	13.6	40.1	19	40

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Health Care Financing Review, Summer 1985, pp. 19, 21, 37, and 45.

Table 99.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Height (inches)	Cumulative percent		Average weight (pounds)	
	Male	Female	Male	Female
Total	100.0	100.0	159.5	127.9
Under 54	0.1	0.7	(B)	111.0
54	0.1	0.8	(B)	106.0
55	0.1	1.0	(B)	112.9
56	0.2	1.7	(B)	107.3
57	0.3	2.7	(B)	107.8
58	0.4	5.2	122.7	107.9
59	0.7	11.4	124.2	113.6
60	2.1	24.4	126.7	116.3
61	3.5	34.9	131.7	121.3
62	7.3	51.2	133.6	124.6
63	12.1	63.3	136.1	128.7
64	19.8	74.7	140.8	133.9
65	27.8	82.8	145.1	138.5
66	39.3	89.9	150.0	140.3
67	51.2	94.6	155.8	144.4
68	61.8	97.4	161.6	148.5
69	70.7	98.6	168.4	156.5
70	78.4	99.3	170.7	153.2
71	85.7	99.7	177.7	156.8
72	92.7	99.9	182.4	167.4
73	95.7	99.9	188.7	(B)
74	98.1	100.0	193.9	(B)
75	99.0	100.0	198.9	(B)
76	99.6	100.0	201.8	(B)
77	99.8	100.0	205.9	(B)
78	99.9	100.0	210.8	(B)
79 and over	100.0	100.0	192.2	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 100.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Weight (pounds)	Cumulative percent		Average height (inches)	
	Male	Female	Male	Female
Total	100.0	100.0	67.5	62.6
Under 75	0.0	0.1	(B)	57.8
75 to 99	0.4	7.8	61.4	59.7
100 to 124	7.7	51.2	63.5	61.9
125 to 149	38.3	82.5	65.7	63.4
150 to 174	71.7	93.3	68.0	64.2
175 to 199	90.0	97.7	69.8	64.7
200 to 224	96.8	99.1	70.7	65.0
225 to 249	98.7	99.6	70.9	65.0
250 to 274	99.5	99.9	70.6	65.5
275 to 299	99.8	100.0	71.0	63.9
300 to 324	99.9	100.0	72.1	(B)
325 to 349	99.9	100.0	(B)	(B)
350 and over	100.0	100.0	(B)	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 101.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish	244	94.7
Milk, milk products (calcium equivalent)	273	69.8
Eggs	28	32.2
Legumes, nuts, seeds	38	25.8
Grain products	281	96.9
Bread, rolls, biscuits	49	70.4
Rice	116	58.7
Fats, oils	13	62.9
Vegetables	160	86.4
Nonalcoholic beverages	491	77.1
Alcoholic beverages	79	12.2
Fruits	169	58.5
Sugar, sweets	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 102.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy	Kcal	1,751	81	77
Protein	G	73.8	163	98
Fat	G	75.8	...	...
Carbohydrate	G	188.2	...	...
Calcium	Mg	625	73	50
Iron	Mg	12.6	103	88
Magnesium	Mg	236	79	70
Phosphorus	Mg	1,068	127	96
Vitamin A value	IU	5,429	122	83
Thiamin	Mg	1.23	110	88
Riboflavin	Mg	1.50	116	87
Preformed niacin ...	Mg	18.3	124	...
Vitamin B_6	Mg	1.44	75	68
Vitamin B_{12}	Mcg	5.11	139	84
Vitamin C	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Adminiatration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; achievement test results; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1985-1986 totaled 200,952, slightly more than in the preceding year but well below the all-time high of 215,524 reached in 1971-1972. There were 232 public schools with 8,221 classroom teachers and 164,169 students (81.7 percent of the total). There were also 141 private schools with 2,456 teachers and 36,783 pupils. Students graduating from public and private high schools in 1984-1985 numbered 12,516. Some 51,989 students attended colleges and universities in the State in 1985-1986, including 19,666 on the Manoa Campus of the University of Hawaii, 443 at West Oahu College, 3,200 at UH-Hilo, 20,060 at six community colleges, and 8,620 in four private colleges and universities. Ninety-two percent of the children 5 and 6 years old were in school in 1980 (compared with 87 percent in 1970), and 47 percent in the 18- and 19-year-old group were enrolled (compared with 53 percent a decade earlier). The expenditure per pupil in public schools rose from $1,503 in 1975-1976 to $3,795 in 1985-1986. Among adults, an estimated 15 percent were illiterate in English as of 1980. More than one-fifth of all residents 25 years of age or more have completed four or more years of college. The Hawaii State Library System, with 49 locations in all four counties, had 2.0 million books, and 2.6 million microforms, film reels, phonorecords, and other collections in 1985, with an annual circulation of 6.0 million. The University of Hawaii libraries in the same year counted 2.4 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii, and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1986 presents comparable information for the nation as a whole.

Table 103.-- SCHOOLS, TEACHERS, ENROLLMENT, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS: 1975-1976 TO 1985-1986

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211
1981-82 ...	376	230	146	10,447	8,139	2,308
1982-83 ...	373	233	140	10,302	8,083	2,219
1983-84 ...	374	233	141	10,344	7,997	2,347
1984-85 ...	372	231	141	10,453	8,060	2,393
1985-86 ...	373	232	141	10,677	8,221	2,456

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
1981-82 ...	200,844	162,805	38,039	13,948	11,563	2,385
1982-83 ...	200,129	162,024	38,105	13,248	10,757	2,491
1983-84 ...	200,240	162,241	37,999	12,992	10,454	2,538
1984-85 ...	200,869	163,860	37,009	12,516	10,092	2,424
1985-86 ...	200,952	164,169	36,783	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, data supplied December 18, 1985.

Table 104.-- SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 12, 1985, AND HIGH SCHOOL GRADUATES, 1984-1985, FOR PUBLIC AND PRIVATE SCHOOL SYSTEMS, BY ISLANDS

[Data include special schools other than University Laboratory Schools]

Island	Number of schools, September 12, 1985			Number of teachers, September 12, 1985		
	Total	Public	Private	Total	Public	Private
State total	373	232	141	10,677	8,221	2,456
Hawaii	45	30	15	1,213	1,053	160
Maui	31	20	11	767	646	121
Lanai	1	1	-	29	29	-
Molokai	7	5	2	88	84	4
Oahu	268	162	106	8,104	5,988	2,116
Kauai	20	13	7	473	418	55
Niihau	1	1	-	3	3	-

Island	Enrollment, September 12, 1985			High school graduates, 1984-1985 school year		
	Total	Public	Private	Total	Public	Private
State total	200,952	164,169	36,783	12,516	10,092	2,424
Hawaii	23,248	21,064	2,184	1,362	1,255	107
Maui	14,803	12,908	1,895	891	755	136
Lanai	439	439	-	40	40	-
Molokai	1,600	1,574	26	89	88	1
Oahu	151,700	119,898	31,802	9,558	7,380	2,178
Kauai	9,131	8,255	876	575	573	2
Niihau	31	31	-	1	1	-

Source: Hawaii State Department of Education, data supplied December 18, 1985.

Table 105.-- PUBLIC AND PRIVATE SCHOOL ENROLLMENT, BY GRADES: SEPTEMBER 12, 1985

[Excludes the University Laboratory Schools]

Grade	Total	Public	Private
All grades	200,952	164,169	36,783
Nursery	2,774	270	2,504
Kindergarten	16,362	13,425	2,937
1	16,020	13,310	2,710
2	15,135	12,570	2,565
3	14,826	12,404	2,422
4	14,203	11,864	2,339
5	13,372	11,157	2,215
6	13,328	11,124	2,204
7	13,488	10,642	2,846
8	13,530	10,721	2,809
9	15,496	12,721	2,775
10	15,635	12,693	2,942
11	14,305	11,619	2,686
12	12,420	9,886	2,534
Specials 1/	10,058	9,763	295

1/ Public school figure includes ungraded students in special schools.

Source: Hawaii State Department of Education, data supplied December 18, 1985.

Table 106.-- ENROLLMENT (PUBLIC AND PRIVATE SCHOOLS COMBINED), BY GRADES, BY COUNTIES: SEPTEMBER 12, 1985

[Excludes the University Laboratory Schools]

Grade	State total	Hawaii	Maui	Honolulu	Kauai
All grades	200,952	23,248	16,842	151,700	9,162
Nursery	2,774	238	124	2,347	65
Kindergarten	16,362	1,936	1,324	12,303	799
1	16,020	1,929	1,408	11,890	793
2	15,135	1,902	1,285	11,205	743
3	14,826	1,863	1,299	10,991	673
4	14,203	1,759	1,215	10,542	687
5	13,372	1,575	1,177	9,972	648
6	13,328	1,569	1,183	9,962	614
7	13,488	1,518	1,129	10,232	609
8	13,530	1,556	1,185	10,151	638
9	15,496	1,658	1,260	11,919	659
10	15,635	1,659	1,308	12,025	643
11	14,305	1,547	1,138	10,989	631
12	12,420	1,367	1,060	9,477	516
Specials 1/	10,058	1,172	747	7,695	444

1/ Includes ungraded students in special schools.

Source: Hawaii State Department of Education, data supplied December 18, 1985.

Table 107.-- PRIVATE SCHOOLS, TEACHERS, AND ENROLLMENT, SEPTEMBER 12, 1985, AND PRIVATE HIGH SCHOOL GRADUATES, 1984-1985, BY CHURCH AFFILIATION

Church affiliation	Schools	Teachers	Enrollment	High school graduates
Total	141	2,456	36,783	2,424
Church-affiliated	95	1,509	24,548	1,342
Roman Catholic	38	753	13,294	829
Other church-affiliated	57	756	11,254	513
Non-church-affiliated ...	46	947	12,235	1,082

Source: Hawaii State Department of Education, information provided January 8, 1987.

Table 108.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1980 TO 1985

Year	All federally-connected pupils		Military dependents	Others 1/
	Number	Percent of total enrollment		
1980	37,934	23.1	18,980	18,954
1981	36,193	22.3	18,793	17,400
1982	37,104	23.0	19,502	17,602
1983	38,305	23.6	19,965	18,340
1984	38,927	23.8	20,304	18,623
1985	38,046	23.2	20,037	18,009

1/ Includes dependents of civilian employees of armed forces.

Source: Hawaii State Department of Education, data supplied December 16, 1986.

Table 109.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1975-1976 TO 1985-1986

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 ..	360,316,441	30,489,000	2,163.62	19,858	2/ 163
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176
1981-1982 ..	432,228,402	17,237,000	2,700.72	22,473	177
1982-1983 ..	497,763,951	23,304,890	3,098.23	21,504	3/ 174
1983-1984 ..	509,710,506	11,941,000	3,255.97	25,380	176
1984-1985 ..	526,741,742	13,652,707	3,351.18	25,648	174
1985-1986 ..	585,533,781	27,812,430	3,795.31	26,595	176

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

3/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, data supplied October 28, 1986.

Table 110.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1976 TO 1986

[Fall enrollment in regular credit programs, including concurrent registrants and early admits]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 2/	West Oahu College 3/
		Total	Under-graduates	Grad-uates	Other 1/		
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369
1982 ..	47,527	21,065	14,879	4,328	1,858	3,752	410
1983 ..	46,468	21,112	15,091	4,339	1,682	3,613	433
1984 ..	43,970	20,023	14,234	4,255	1,534	3,237	435
1985 ..	43,369	19,666	13,565	4,283	1,818	3,200	443
1986 ..	42,825	18,965	12,709	4,565	1,691	3,300	480

Year	Community Colleges 4/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward	Kauai	Maui
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927
1982 ..	22,300	5,331	5,560	6,261	1,568	1,272	2,308
1983 ..	21,310	5,131	5,284	6,060	1,462	1,190	2,183
1984 ..	20,275	4,554	5,281	5,785	1,366	1,176	2,113
1985 ..	20,060	4,539	5,058	5,667	1,543	1,177	2,076
1986 ..	20,080	4,275	5,226	5,703	1,644	1,248	1,984

Footnotes and source follow next table.

Table 111.-- DEGREES, DIPLOMAS, AND CERTIFICATES AWARDED BY THE UNIVERSITY OF HAWAII: 1976 TO 1986

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First professional 5/	Other 6/
1976	68	3,160	1,132	116	102	183
1977	58	3,192	1,019	135	113	164
1978	61	3,213	1,007	129	125	157
1979	69	2,899	1,063	122	122	134
1980	46	2,859	969	102	136	124
1981	57	2,701	968	115	152	106
1982	52	2,588	993	111	137	122
1983	52	2,639	938	120	132	120
1984	60	2,698	945	101	131	166
1985	90	2,642	914	138	137	189
1986	66	2,679	837	132	131	244

Year ended June 30	University of Hawaii at Hilo 2/			West Oahu College: Bachelor 3/	Community Colleges 4/	
	Certificates	Associate degrees	Bachelor degrees		Certificates 7/	Associate degrees
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	22	509	1,964
1980	86	256	160	48	481	1,807
1981	57	261	171	47	483	1,763
1982	74	263	160	46	519	1,882
1983	68	242	193	91	509	2,008
1984	80	239	188	136	473	2,026
1985	67	229	180	77	454	1,875
1986	56	196	183	98	478	1,933

1/ Includes unclassified, special and no data on student level.

2/ Hilo College, College of Agriculture, and Hawaii Community College.

3/ Opened Spring 1976.

4/ Excludes Hawaii Community College, which is part of the University of Hawaii at Hilo.

5/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

6/ Certificates in Dental Hygiene and professional diplomas.

7/ Certificates of Achievement.

Source: University of Hawaii, Office of Institutional Research and Analysis, records.

Table 112.-- UNIVERSITY OF HAWAII CURRICULA, TUITION, FINANCES, AND FACULTY AND STAFF: 1985

Subject		Number
Curricula offered (Manoa Campus), Fall 1985		233
Bachelor's degree programs		88
Master's degree programs		80
Doctoral programs (DrPH, EdD, PhD)		42
Other programs 1/		23
Tuition per semester (full-time undergraduate, regular session):		
Manoa Campus:	Resident	$ 425
	Nonresident	1,530
Hilo (upper division):	Resident	380
	Nonresident	1,435
West Oahu College:	Resident	315
	Nonresident	1,100
Community colleges:	Resident	115
	Nonresident	850
Finances, fiscal year ending June 30, 1985.		
Current fund revenues ($1,000)		315,265
Current fund expenditures ($1,000)		306,436
Number of students receiving financial aid		13,569
Faculty and staff, October 1985		6,714
Board of Regents appointees		5,115
Full-time		3,249
Part-time		1,866
Civil Service personnel		1,599
Full-time		1,558
Part-time		41

1/ Includes 2-year, undergraduate, and graduate certificate programs (18), first professional degree programs (JD, MD), and other programs (3).

Source: Office of Institutional Research and Analysis, University of Hawaii, Facts About the University of Hawaii, December 1985.

Table 113.-- ENROLLMENT AND EARNED DEGREES AWARDED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1984 TO 1986

[Excludes extension programs of mainland and foreign schools and other limited or specialized curriculum programs]

Year and type of enrollment and earned degree	All private institutions	Brigham Young Univ.-Hawaii Campus	Chaminade Univ. of Honolulu	Hawaii Loa College	Hawaii Pacific College
1984					
Fall enrollment 1/	8,215	1,912	2,471	430	3,402
Undergraduate	8,056	1,912	2,312	430	3,402
Graduate	159	-	159	-	-
Earned degrees conferred: 2/					
Associate	236	36	72	-	128
Bachelor's	613	129	246	66	172
Master's	66	-	66	-	-
1985					
Fall enrollment 1/	8,620	1,926	2,512	475	3,707
Undergraduate	8,396	1,926	2,288	475	3,707
Graduate	224	-	224	-	-
Earned degrees conferred: 2/					
Associate	203	35	41	-	127
Bachelor's	604	128	251	45	180
Master's	53	-	53	-	-
1986					
Fall enrollment 1/	9,082	2,005	2,606	400	4,071
Undergraduate	8,661	2,005	2,305	400	3,951
Graduate	421	-	301	-	120
Earned degrees conferred: 2/					
Associate	227	26	53	1	147
Bachelor's	687	116	257	70	244
Master's	74	-	74	-	-

1/ In regular credit programs.

2/ Year ended June 30. Data for 1984 and 1985 have been revised.

Source: Compiled by Hawaii State Department of Planning and Economic Development from college officials.

Table 114.-- EDUCATIONAL CHARACTERISTICS: 1970 AND 1980

Subject	1970	1980	Percent	
			1970	1980
SCHOOL ENROLLMENT				
Persons 3 years old and over enrolled in school 1/	235,765	266,181	100.0	100.0
Nursery school	7,707	12,808	3.3	4.8
Private	5,524	9,608	2.3	3.6
Kindergarten	14,615	14,289	6.2	5.4
Private	1,635	2,932	0.7	1.1
Elementary (1 to 8 years)	127,678	118,991	54.2	44.7
Private	13,770	19,644	5.8	7.4
High school (1 to 4 years)	57,455	65,609	24.4	24.6
Private	7,360	10,824	3.1	4.1
College	28,310	54,484	12.0	20.5
YEARS OF SCHOOL COMPLETED				
Persons 25 years old and over	384,843	547,608	100.0	100.0
Elementary: 0 to 4 years	32,080	28,969	8.3	5.3
5 to 8 years	63,256	59,576	16.4	10.9
High school: 1 to 3 years	51,365	54,793	13.3	10.0
4 years	138,307	192,042	35.9	35.1
College: 1 to 3 years	46,088	100,813	12.0	18.4
4 or more years	53,747	111,415	14.0	20.3

1/ 1970 figures include persons 3 to 34 years old only.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 115 .-- SCHOOL ENROLLMENT BY AGE: 1970 AND 1980

Age	Number enrolled in school		Percent enrolled in school	
	1970	1980	1970	1980
Persons 3 years old and over enrolled in school .	238,925	266,181	...	...
3 and 4 years old	7,097	11,436	24.5	39.0
5 and 6 years old	27,683	26,070	87.4	92.0
7 to 13 years old	108,757	102,604	96.7	98.9
14 and 15 years old	30,409	31,741	95.8	98.6
16 and 17 years old	26,362	31,711	90.8	93.4
18 and 19 years old	14,486	16,869	53.1	46.9
20 and 21 years old	7,672	11,164	22.4	25.6
22 to 24 years old	6,357	10,907	13.6	17.5
25 to 34 years old	6,942	15,254	6.4	8.5
35 years old and over	3,160	8,425	...	...

Source: U.S. Bureau of the Census, *1970 Census of Population, General Social and Economic Characteristics, Hawaii*, PC(1)-C13 (December 1971), table 51; *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 66.

Table 116.-- EDUCATIONAL CHARACTERISTICS, BY COUNTIES: 1980

Subject	State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Persons 18 to 24 years: percent enrolled	27.4	27.1	28.4	-	21.9	15.7
Persons 25 years old and over: percent --						
High school graduates	73.8	68.9	75.6	28.2	64.1	67.7
4 years or more of college ..	20.3	15.2	21.7	3.5	15.7	15.3

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 56.

Table 117.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER: 1980 TO 1985

[Averages for periods specified. Based on pooled samples of 1,885 households (5,805 persons of all ages) for 1980-1982 and 1,735 households (5,288 persons) for 1983-1985]

Years of school completed	1980-1982	1983-1985
Persons 25 years and over	555,432	592,962
None	8,282	7,030
Elementary	82,218	68,995
High school, 1 to 3 years	50,399	59,085
High school, 4 years	200,435	220,320
College, 1 to 3 years	96,696	109,846
College, 4 years	67,427	79,102
College, 5 or more years	49,975	48,584
Median (years)	12.7	12.7

Source: U.S. Bureau of the Census for the U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1980 to 1985; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 118.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1985

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 11,133 persons 25 years old and over]

Years of school completed	25 years old and over	25 to 44 years old	45 to 64 years old	65 years old and over
All levels .	586,285	309,850	193,738	82,697
None	4,346	628	888	2,830
1 to 4 years	9,904	642	2,561	6,701
5 to 8 years	40,088	4,951	13,979	21,958
9 to 11 years ...	33,438	9,906	16,394	7,138
12 years	222,316	119,100	81,314	21,903
Vocational	40,780	22,457	14,696	3,627
13 to 15 years ..	91,674	65,445	20,488	5,742
16 years	81,898	54,070	22,201	5,627
17 years or more	52,848	30,167	18,774	3,907
Not reported	8,192	2,483	2,444	3,264
Median 1/ (years)	12.8	13.3	12.7	11.7

1/ Excludes vocational and not reported. Corrected data for 1983 (shown in *Data Book 1985*, table 108) were: All ages, 12.7; 25-44 years, 13.0; 45-64 years, 12.6 (unchanged); 65 and over, 10.1.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 119.-- ILLITERACY AND YEARS OF SCHOOL COMPLETED: 1900 TO 1980

[Data refer to persons 15 years old and over in 1900-1930 and 1980 and to persons 14 years old and over in 1940, 1950, 1960, and 1970]

Year	Illiterate 1/		With less than 1 year of school		With less than 5 years of school	
	Number	Percent	Number	Percent	Number	Percent
1900	41,949	35.2	(NA)	(NA)	(NA)	(NA)
1910	39,465	29.2	(NA)	(NA)	(NA)	(NA)
1920	35,083	21.2	(NA)	(NA)	(NA)	(NA)
1930	41,018	17.5	(NA)	(NA)	(NA)	(NA)
1940 2/ ...	(NA)	(NA)	37,048	12.3	76,612	25.4
1950	(NA)	8.4	27,060	7.8	61,285	17.6
1960	21,000	5.0	21,032	4.9	47,467	11.1
1970	(NA)	1.9	12,831	2.3	33,886	6.1
1980	(NA)	(NA)	11,218	1.5	29,929	4.0

NA Not available.

1/ Defined as the inability to read and write. Data for 1900-1930 are based on a direct census question regarding illiteracy; data for later years are estimates by the Bureau of the Census, based on national surveys on illiteracy and data by States on years of school completed.

An estimate of 1980 adult illiteracy *in English*, not comparable to the 1900-1970 figures shown here, indicated that 15 percent of all Hawaii residents 20 years old and over were illiterate in English. Hawaii had a higher estimated illiteracy rate than 39 States, a lower rate than 5 (including D.C.), and was tied with 6. The national rate was 13 percent. These estimates were based on the results of an actual test, the Measure of Adult English Proficiency, given to a national sample of 3,400 adults in 1982. State ratios were based on a regression equation using 1980 census data for six predictive factors.

2/ Years of school completed based on actual data for persons 25 years old and over and estimates (based on 1950 rates for persons 25 to 34) for persons 14 to 24.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), p. 229; U.S. Bureau of the Census, decennial census bulletins, 1940-1980; U.S. Department of Education, Office of the Deputy Under Secretary for Planning, Budget and Evaluation, *Adult Illiteracy Estimates for States* (revised April 14, 1986).

Table 120.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 4, 6, 8, AND 10: 1979 TO 1985

[Percent of students taking test. Fall data unless otherwise specified. National norms are: below average, 23 percent; average, 54 percent; above average, 23 percent]

Grade, subject, and level	1979	1980	1981	1982	1983	1984	1985
GRADE 4 1/							
Reading:							
Below average ..	25	24	19	20	18	17	19
Average	57	58	58	59	59	57	58
Above average ..	18	18	23	21	23	25	23
Math:							
Below average ..	26	26	22	23	23	27	30
Average	51	51	52	53	53	50	50
Above average ..	23	23	26	24	24	23	20
GRADE 6							
Reading:							
Below average ..	23	21	17	16	16	15	14
Average	59	60	62	62	63	64	64
Above average ..	18	19	21	22	21	21	22
Math:							
Below average ..	24	23	19	19	20	20	19
Average	50	51	52	53	53	54	54
Above average ..	26	26	29	28	27	26	27
GRADE 8							
Reading:							
Below average ..	32	30	29	26	23	24	22
Average	55	56	56	59	61	60	62
Above average ..	13	14	15	15	16	16	16
Math:							
Below average ..	28	26	23	22	21	22	20
Average	51	51	53	53	55	55	56
Above average ..	21	23	24	24	24	23	24

Continued on next page.

Table 120.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 4, 6, 8, AND 10: 1979 TO 1985 -- Con.

Grade, subject, and level	1979	1980	1981	1982	1983	1984	1985
GRADE 10							
Reading:							
Below average ..	32	32	34	32	29	27	26
Average	52	52	51	52	54	55	55
Above average ..	16	16	15	16	17	18	19
Math:							
Below average ..	26	25	25	24	24	22	21
Average	53	53	54	55	55	57	57
Above average ..	21	22	21	21	21	21	22

1/ Data for 1984 and 1985 refer to grade 3 and results obtained in Spring 1985 and 1986.

Source: Hawaii State Department of Education, Test Development and Administration Section, Summary Report of Statewide Testing Program, 1984, pp. 10, 18, and 26, and records.

Table 121.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1978 TO 1983

[Thousands of dollars. Fiscal years]

Year	State total	University of Hawaii at Manoa
1978	44,070	25,884
1979	40,271	29,525
1980	44,940	31,935
1981	37,927	27,280
1982 1/	41,150	28,278
1983	36,522	30,815

1/ Revised from Data Book 1985, table 111.

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1983, Final Report NSF 85-321 (August 1985), pp. 41 and 43 (microfiche).

Table 122.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1980 TO 1985

Subject	1980	1981	1982	1983	1984	1985
Library locations,						
June 30	47	47	47	47	49	49
Oahu	22	22	22	22	23	23
Other islands	25	25	25	25	26	26
Personnel, June 30 1/ ..	435.30	437.30	473.95	482.55	492.05	497.05
Librarians	122.00	122.00	124.40	126.00	131.00	134.00
All others	313.30	315.30	349.55	356.55	361.05	363.05
Hours open 2/	54	54	54	54	54	54
Collections, June 30: 3/						
Books 4/	2,025.2	2,118.2	2,239.0	2,203.4	2,207.4	1,976.8
Audio-visuals,						
microforms 5/	513.6	518.5	(NA)	648.7	282.2	164.0
Other print 5/	797.7	804.7	(NA)	1,494.3	2,160.6	2,393.7
Circulation, year ended						
June 30 3/	5,042.7	5,267.0	5,263.1	5,321.7	5,490.7	6,011.4

NA Not available.

1/ Full-time equivalent basis, excluding student help. For 1984 and 1985, data include permanent and temporary State general-funded positions and temporary Federal funded positions.

2/ Regular weekly totals for Hawaii State Library, 478 South King Street, Honolulu.

3/ In thousands.

4/ Statistics for automated libraries taken from "total items linked" report; for non-automated libraries, from district annual reports.

5/ Microforms included with "other print" in 1984 and 1985. Art prints, pictures, and posters included with "other print" in 1985.

Source: Hawaii State Department of Education, Office of the State Librarian, June 17, 1986.

Table 123.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM BY DISTRICTS: 1985

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	49	497.05	6,011,385
Oahu	23	277.0	4,328,770
Hawaii State Library	1	84.0	607,086
Library for the Handicapped ..	1	14.5	40,159
East Oahu Library District ...	12	109.0	2,413,627
West Oahu Library District ...	9	69.5	1,267,898
Other islands	26	133.5	1,680,950
Hawaii Library District	13	59.5	837,853
Kauai Library District	5	31.5	375,886
Maui Library District 2/	8	42.5	467,211
Administration	...	86.5	1,665

District	Collections, June 30		
	Books	Audio-visuals	Other print
Total system	1,976,757	163,970	2,393,716
Oahu	1,336,341	124,414	1,874,481
Hawaii State Library	374,017	31,475	1,366,848
Library for the Handicapped ..	22,000	59,474	1,506
East Oahu Library District ...	612,376	23,093	375,603
West Oahu Library District ...	327,948	10,372	130,524
Other islands	640,112	39,551	519,235
Hawaii Library District	259,881	12,402	264,229
Kauai Library District	156,482	13,559	122,809
Maui Library District 2/	223,749	13,590	132,197
Administration	304	5	-

1/ Full-time equivalent basis, including permanent and temporary State general-funded and temporary Federal funded positions, but excluding student help.

2/ Includes libraries on Lanai (1 location), Maui (6 locations), and Molokai (1 location).

Source: Hawaii State Department of Education, Office of the State Librarian, June 17, 1986.

Table 124 .-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1985 AND 1986

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1985	1986	1985	1986
All campuses	2,443,863	2,534,421	559,466	553,210
University of Hawaii at Manoa	2,013,146	2,091,059	351,280	346,500
West Oahu College	19,444	20,796	6,972	6,904
University of Hawaii at Hilo 1/	178,555	184,192	51,403	45,934
Community colleges, total 1/	232,718	238,374	149,811	153,872
Honolulu	53,121	50,197	47,355	42,355
Kapiolani	33,471	35,507	13,532	16,181
Leeward	51,746	53,290	37,831	36,899
Windward	29,426	31,098	13,738	15,466
Kauai	34,293	35,737	18,950	13,967
Maui	30,661	32,545	18,405	29,004

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, data provided December 17, 1985 and November 14, 1986.

Section 4

LAW ENFORCEMENT, COURTS AND PRISONS

Statistics in this section refer to crimes committed, victims of crime, arrests, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1985 numbered 55,000, compared with 57,000 in 1984 and 52,000 in 1975. The rate per 1,000 resident population increased from 59 in 1975 to 74 in 1980, then declined to 52 in 1985. Seventy-seven percent of the serious crimes in 1985 occurred on Oahu. For the State as a whole, major offenses known to police in 1985 included 43 murders or cases of non-negligent manslaughter, 310 rapes, 1,048 robberies, 912 aggravated assaults, 12,164 burglaries, 37,357 cases of larceny, and 2,980 auto thefts. The value of property reported stolen in 1985 amounted to $24 million, exclusive of motor vehicles; only 8.3 percent was recovered. Authorities confiscated 810,000 marijuana plants, with an estimated value of $810 million, during the year. Confirmed instances of child abuse and neglect numbered 2,101. Eighteen percent of the major offenses known to police were cleared by arrest or otherwise in 1985. Forty-three percent of the persons arrested for major crimes and 23 percent of those arrested for lesser offenses in 1985 were less than eighteen years of age. The number of inmates in the ten State correctional institutions averaged 2,009 during fiscal 1986; of this number, 1,331 were adults serving time for felonies. Cases concluded in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1985 numbered 946,000, including 832,000 traffic cases. Filings in the United States District Court for Hawaii included 1,575 civil cases, 3,074 criminal cases, and 609 bankruptcy cases. The last legal execution in Hawaii took place in 1947. There were 3,373 attorneys licensed in Hawaii as of mid-1986. Criminal justice system expenditures amounted to $145 million in fiscal 1984.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Data Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1986, Section 6.

Table 125.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1975 TO 1985

[Part I offenses include murder, negligent and nonnegligent manslaughter, forcible rape, robbery, aggregated assault, burglary, larceny-theft, motor vehicle theft, and, since 1979, arson. Arson, however, is excluded from this table through 1984. Actual offenses include reported or known offenses, less unfounded cases]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1975	51,782	58.6	43,612	3,202	1,777	3,191
1976	55,603	61.6	45,307	3,918	2,172	4,206
1977	57,978	63.3	46,389	4,178	2,127	5,284
1978	63,333	68.2	51,273	4,455	2,407	5,198
1979	65,597	69.0	52,310	4,634	2,425	6,228
1980	71,292	73.6	56,885	5,222	2,637	6,548
1981	63,454	64.7	48,938	5,623	2,505	6,388
1982	64,679	64.8	49,826	5,516	2,515	6,822
1983	59,086	58.0	45,874	4,869	2,303	6,040
1984	56,913	54.9	44,560	4,697	2,145	5,511
1985 2/ ..	55,372	52.5	42,475	5,147	2,144	5,606

1/ Annual rate per 1,000 resident population, July 1.

2/ Includes arson, omitted in previous years. Excluding arson, the 1985 Statewide total was 54,814 offenses, or 52.0 per 1,000 inhabitants.

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii (annual), and data compiled from Police Department annual reports and records.

Table 126.-- ACTUAL PART I OFFENSES KNOWN TO THE POLICE, BY TYPE OF OFFENSE, FOR THE STATE OF HAWAII: 1976 TO 1985

Offense	1976	1977	1978	1979	1980
All Part I offenses	55,603	57,978	63,333	65,597	71,292
Murder, non-neg. manslaughter	55	63	57	67	85
Negligent manslaughter	134	117	132	135	135
Forcible rape	194	227	225	296	327
Robbery	1,152	1,151	1,561	1,674	1,821
Aggravated assault	564	551	529	587	620
Burglary	16,463	16,944	17,203	16,390	17,668
Larceny	32,232	34,508	38,497	39,942	44,766
Motor vehicle theft	4,809	4,417	5,129	6,506	5,870
Arson 1/	...	...	...	...	...

Offense	1981	1982	1983	1984	1985
All Part I offenses	63,454	64,679	59,086	56,913	55,372
Murder, non-neg. manslaughter	47	31	57	34	43
Negligent manslaughter	98	29	29	-	-
Forcible rape	314	319	300	315	310
Robbery	1,444	1,561	1,315	1,202	1,048
Aggravated assault	570	590	868	857	912
Burglary	16,611	16,337	13,589	12,588	12,164
Larceny	40,102	41,568	38,585	38,292	37,357
Motor vehicle theft	4,268	4,244	4,343	3,625	2,980
Arson 1/	...	...	...	...	558

1/ Not included in tabulations before 1985.

Source: Compiled by Hawaii Criminal Justice Data Center from Annual Reports of the Hawaii County Police Department, Honolulu Police Department, Kauai Police Department, and Maui Police Department.

Table 127.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE: 1975 TO 1985

[Arson, reclassified as a Part I offense effective 1979, is included as a Part II offense in this table]

Year	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
1975 ..	51,782	55,049	9,994	33,151	19.3	60.2
1976 ..	55,603	62,485	12,923	41,833	23.2	66.9
1977 ..	57,978	72,934	11,978	46,114	20.7	63.2
1978 ..	63,333	84,926	12,101	56,275	19.1	66.3
1979 ..	65,597	89,365	11,933	56,988	18.2	63.8
1980 ..	71,292	93,712	12,753	55,233	17.9	58.9
1981 ..	63,454	94,179	10,295	56,154	16.2	59.6
1982 ..	64,679	92,898	10,934	53,318	16.9	57.4
1983 ..	59,086	88,299	10,355	53,010	17.5	60.0
1984 ..	56,852	94,240	9,553	59,272	16.8	62.9
1985 ..	54,814	97,661	10,066	62,016	18.4	63.5

1/ Data include prior years' offenses cleared in current year.

Source: Data compiled by Hawaii Criminal Justice Data Center from Police Department annual reports and Uniform Crime Reporting Program.

Table 128.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1985

County	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
State total .	55,372	97,101	10,115	61,966	18.3	63.8
Honolulu	42,475	70,313	7,148	46,613	16.8	66.3
Hawaii	5,147	7,932	1,535	5,075	29.8	64.0
Kauai	2,144	3,568	434	1,646	20.2	46.1
Maui	5,606	15,288	998	8,632	17.8	56.5

1/ Data include prior years' offenses cleared in current year.

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii 1985, other detailed Uniform Crime Reporting program data, and data compiled from county police departments.

Table 129.-- MAJOR OFFENSES REPORTED TO POLICE PER 100,000 POPULATION, BY RESIDENCE OF VICTIM, FOR OAHU, 1981-1982, AND KAUAI, 1978-1980

[Annual averages for Part I offenses. Resident victimization rates based on resident population estimates; visitor victimization rates, on estimated average visitor census]

Offense	Oahu		Kauai	
	Residents	Visitors	Residents	Visitors
All crimes ..	5,685.5	7,342.4	5,681.0	5,616.8
Violent crimes ...	233.0	296.2	228.0	200.0
Property crimes ..	5,452.5	7,046.2	5,453.0	5,416.8

Source: Meda Chesney-Lind and Ian Y. Lind, Visitors As Victims: Crimes Against Tourists in Two Hawaii Counties (University of Hawaii, School of Social Work, Youth Development and Research Center, Research Report No. 293, February 1984), pp. 11a and 12a.

Table 130.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1985

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Clearances per 100 offenses 1/	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	55,372	42,475	10,115	7,148	18.3	16.8
Murder and nonnegligent manslaughter	43	36	24	19	55.8	52.8
Manslaughter (neg.) ...	--	--	--	--	--	--
Rape	310	248	169	133	54.5	53.6
Robbery	1,048	965	319	276	30.4	28.6
Aggravated assault	912	552	556	304	61.0	55.1
Burglary	12,164	8,989	1,396	794	11.5	8.8
Larceny over $200	12,443	9,593	7,048	5,229	18.9	18.1
Larceny, $50-$200	9,850	7,621				
Larceny, under $50	15,064	11,623				
Motor vehicle theft ...	2,980	2,421	554	368	18.6	15.2
Arson	558	427	49	25	8.8	5.9

1/ Data include clearance of offenses reported in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 131.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR COUNTIES: 1985

Subject	State total	Counties: Honolulu	Hawaii	Maui	Kauai
PART I OFFENSES					
Total	10,872	8,298	1,078	986	510
Juveniles	4,638	3,557	489	400	192
Male	3,572	2,736	386	313	137
Female	1,066	821	103	87	55
Adults	6,234	4,741	589	586	318
Male	4,706	3,561	453	438	254
Female	1,528	1,180	136	148	64
PART II OFFENSES (EXCEPT TRAFFIC)					
Total	39,819	30,721	3,642	3,371	2,085
Juveniles	9,065	6,513	883	866	803
Male	6,087	4,412	574	557	544
Female	2,978	2,101	309	309	259
Adults	30,754	24,208	2,759	2,505	1,282
Male	26,468	20,880	2,315	2,170	1,103
Female	4,286	3,328	444	335	179

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 132.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY: 1975 TO 1985

Year	Locally stolen motor vehicles			Other stolen property		
	Value stolen ($1,000)	Value recovered		Value stolen ($1,000)	Value recovered	
		Amount ($1,000)	Percent		Amount ($1,000)	Percent
1975 ...	4,725.5	3,227.5	68.3	11,632.4	846.8	7.3
1976 ...	5,732.7	4,243.4	74.0	14,242.9	1,229.6	8.6
1977 ...	6,909.2	5,004.2	72.4	17,869.7	1,507.9	8.4
1978 ...	9,284.8	6,485.0	69.8	22,430.8	2,187.2	9.8
1979 ...	14,469.1	9,999.0	69.1	24,903.4	2,639.5	10.6
1980 ...	14,075.2	10,296.9	73.2	31,832.9	2,102.2	6.6
1981 ...	12,033.6	9,387.9	78.0	31,667.8	2,380.6	7.5
1982 ...	12,524.0	8,328.0	66.5	26,001.2	2,028.3	7.8
1983 ...	13,904.4	9,474.9	68.1	25,941.6	2,151.1	8.3
1984 ...	12,327.9	9,110.0	73.9	26,576.6	1,861.3	7.0
1985 ...	10,376.8	7,683.9	74.0	24,114.3	2,003.5	8.3

Source: Hawaii Criminal Justice Data Center, Crime in Hawaii for 1975-1985.

Table 133.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY COUNTIES: 1985

Subject	State total	Counties			
		Honolulu	Hawaii	Maui	Kauai
Value of property stolen ($1,000)	34,491.1	26,905.3	2,710.4	3,604.5	1,270.9
Motor vehicles	10,376.8	8,017.3	502.4	1,360.5	496.7
Other property	24,114.3	18,888.0	2,208.0	2,244.0	774.2
Value of stolen property recovered 1/ ($1,000)	9,687.4	7,284.3	547.1	1,388.3	467.6
Motor vehicles	7,683.9	5,662.2	397.8	1,182.1	441.8
Other property	2,003.5	1,622.1	149.3	206.2	25.8
Percent of value recovered	28.1	27.1	20.2	38.5	36.8
Motor vehicles	74.0	70.6	79.2	86.9	88.9
Other property	8.3	8.6	6.8	9.2	3.3

1/ Includes property stolen in previous years.

Source: Hawaii Criminal Justice Data Center, tabulation from Uniform Crime Reporting program.

Table 134.-- MAJOR OFFENSES, OFFENSES CLEARED, PERSONS ARRESTED, AND VALUE OF PROPERTY STOLEN AND RECOVERED, FOR THE CITY AND COUNTY OF HONOLULU: 1982 TO 1985

Subject	1982	1983	1984	1985
Actual major (Part I) offenses known to police	49,826	45,874	44,497	42,094
Murder; non-negligent manslaughter	25	45	25	36
Manslaughter (negligent)	29	29	23	66
Rape	246	247	251	250
Robbery	1,458	1,228	1,096	958
Aggravated assault	381	576	539	553
Burglary	12,241	9,997	9,284	8,984
Larceny	31,731	29,853	30,198	28,825
Over $50	17,897	16,796	18,050	17,209
Auto theft	3,715	3,899	3,081	2,422
Major (Part I) offenses cleared 1/	8,145	8,047	7,199	7,916
Per 100 offenses known	16.3	17.5	16.2	18.8
Persons arrested for Part I offenses	9,223	9,002	7,316	7,971
Juveniles under 18 years	4,061	3,589	3,140	3,529
Male	3,116	2,740	2,435	2,712
Female	945	849	705	817
Adults, 18 years and over	5,162	5,413	4,176	4,442
Value of property reported stolen 2/	23,920	22,798	24,456	21,398
Value of stolen property recovered 3/	1,940	1,946	2,038	1,619
Percent recovered	8.1	8.5	8.3	7.6

1/ By arrest or otherwise. Includes prior years offenses.
2/ Thousands of dollars. Excludes stolen automobiles.
3/ Includes prior years stolen property recovered.
Source: Honolulu Police Department, Annual Statistical Report (annual).

Table 135.-- MARIJUANA CONFISCATED OR DESTROYED BY AUTHORITIES, BY COUNTIES: 1985

County	Number of plants 1/	Weight 2/ (pounds)	Estimated value 3/ ($1,000)
State total	809,839	(NA)	809,839
Hawaii	563,621	(NA)	563,621
Maui	79,537	59,782	79,537
Honolulu	73,452	12,652	73,452
Kauai	93,229	19,731	93,229

NA Not available.

1/ Includes plants confiscated and/or destroyed.

2/ Hawaii County does not maintain records on weight of marijuana confiscated. The Kauai County weight figure does not include plants destroyed through Operation Wilt, the spraying of a diesel oil emulsion from the air.

3/ Estimated value is based on the federal/state law enforcement agreement that a plant is worth $1,000 each. Not included is the value of confiscated processed marijuana.

Source: Data compiled from the counties by the Hawaii Criminal Justice Data Center and provided to DPED, February 20, 1986.

Table 136.-- CHILD ABUSE AND NEGLECT REPORTS: 1980 TO 1984

Year	Reports	Confirmed
1980	2,099	1,106
1981	2,355	1,173
1982	2,677	1,408
1983	3,631	1,670
1984	4,364	2,101

Source: Hawaii State Department of Social Services and Housing, records.

Table 137 .-- POLICE PROTECTION AND CORRECTION EMPLOYMENT, PAYROLLS, AND EXPENDITURES BY STATE AND COUNTY GOVERNMENTS: 1983

Subject	Total	Police protection	Correction
Full-time equivalent employment, Oct. ...	3,616	2,712	904
October payroll ($1,000)	6,361	5,162	1,199
Expenditures, fiscal year (mil. dol.) ...	1/ 169	81	28

1/ Includes $60 million for judicial and legal, not shown separately.

Source: Data from U.S. Bureau of the Census, cited in Statistical Abstract of the United States: 1986, p. 176.

Table 138 .-- CRIMINAL JUSTICE POSITIONS AND EXPENDITURES: FISCAL YEAR 1983-1984

Agency	Authorized positions (full-time equivalent)	Expenditures (dollars)
Total	5,339.0	145,308,387
Police	1/ 2,831.0	78,320,670
Prosecutors	243.0	7,739,117
Judiciary	1,191.0	32,002,471
Corrections	996.0	25,458,647
Intake Service Centers	58.0	1,353,434
Hawaii Paroling Authority	20.0	434,048

1/ Based on full-time positions only (sworn and non-sworn).

Source: Department of the Attorney General, Hawaii Criminal Justice Data Center, Management and Administrative Statistics for the Criminal Justice System in the State of Hawaii, Research and Statistics Report MAS3 (June 1986), pp. 169-170.

Table 139.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS: 1985 AND 1986

[As of June 30]

Subject	1985	1986
Federal judges and magistrates: 1/		
U.S. Bankruptcy Court	1	1
U.S. District Court	7	7
State justices and judges: 2/		
Supreme Court	5	5
Intermediate Court of Appeals	3	3
Circuit Courts 3/	24	24
Assigned to Family Court	1	1
District Courts 4/	29	30
Assigned to Family Court	7	8
Land Court	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)
Attorneys licensed in Hawaii 6/	3,180	3,373

1/ Full-time and part-time. Includes visiting judges and magistrates. In addition, one judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions.

3/ Includes one judge assigned to the Family Court, a division of the Circuit Courts. In addition, Circuit Court judges may be assigned to hear matters before the Land Court and Tax Appeal Court, both of which are specialized courts separate from the Circuit Courts. There are four Circuit Courts, convened in five locations.

4/ Includes judges assigned to the Family Court, a division of the Circuit Courts. There are four District Courts, one in each of the four judicial circuits, convened in 23 locations.

5/ Caseload assigned to Circuit Court judges.

6/ Includes judges.

Source: Office of the Clerk, U.S. District Court, records; Office of the Administrative Director of the Courts, State Judiciary, records.

Table 140.-- UNITED STATES DISTRICT COURT CASES: 1983 TO 1985

[Years ended June 30]

Subject	1983	1984	1985
Civil cases:			
Commenced	1,136	1,459	1,575
Terminations	715	1,347	1,104
Pending, end of period	1,441	1,553	2,024
Criminal cases:			
Commenced (including transfers)	2,408	3,030	3,074
Terminations	1,924	2,833	3,014
Pending, end of period	1,058	1,255	1,315
Bankruptcy:			
Commenced, total	677	630	609
Business	266	249	246
Nonbusiness	411	381	363
Terminations	722	331	483
Pending, end of period	1,442	1,741	1,867

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1983, 1984, 1985.

Table 141.-- STATE JUDICIARY TERMINATIONS: 1976 TO 1986

[Fiscal years ended June 30]

Court and type of case	1976	1977	1978	1979	1980	1981
All courts, total ..	623,453	685,282	719,773	818,750	760,231	890,048
Supreme Court 1/	520	563	729	876	1,023	1,158
Civil cases	97	97	95	111	75	116
Criminal cases	50	41	68	149	150	136
Other proceedings	373	425	566	616	798	906
Intermediate Court of Appeals 2/	...	...	...	...	42	350
Civil cases	...	...	...	...	13	157
Criminal cases	...	...	...	...	21	45
Other cases	...	...	...	...	8	148
Circuit Courts proper ...	8,094	8,626	9,151	8,744	10,581	8,778
Civil cases	3,462	3,732	4,073	3,367	3,871	3,627
Criminal cases	1,638	1,532	1,716	1,962	2,279	1,853
Part I offenses	654	766	764	837	844	788
Part II offenses	984	766	952	1,125	1,435	1,065
Other proceedings	2,994	3,362	3,362	3,415	4,431	3,298
Family Courts	17,256	19,010	20,194	20,952	21,525	20,442
Civil cases	7,396	8,538	9,314	10,277	10,510	9,252
Criminal cases	45	24	50	40	81	45
Other proceedings	9,815	10,448	10,830	10,635	10,934	11,145
District Courts	597,583	657,083	689,699	788,178	727,060	859,320
Civil cases	10,953	10,330	10,200	11,382	11,894	15,992
Traffic cases	545,340	609,323	640,468	733,196	669,033	792,767
Other violations	24,881	18,926	18,888	22,096	22,696	24,401
Criminal cases	16,409	18,504	20,143	21,504	23,437	26,160
Part I offenses	2,515	3,254	3,368	3,651	3,513	4,426
Part II offenses	13,894	15,250	16,775	17,853	19,924	21,734

Continued on next page.

Table 141.-- STATE JUDICIARY TERMINATIONS: 1976 TO 1986 -- Con.

Court and type of case	1982	1983	1984	1985	1986
All courts, total ..	946,347	999,447	930,586	945,903	950,387
Supreme Court 1/	1,434	1,483	1,817	2,769	2,588
Civil cases	168	250	174	199	287
Criminal cases	140	164	228	241	312
Other proceedings	906	1,126	1,069	2,329	1,989
Intermediate Court of Appeals 2/	298	222	183	179	224
Civil cases	136	91	97	70	87
Criminal cases	27	35	23	28	42
Other cases	135	96	63	81	95
Circuit Courts proper ...	9,882	10,304	21,573	13,248	13,467
Civil cases	4,401	4,732	13,918	6,288	7,465
Criminal cases	2,145	1,865	4,383	3,252	2,717
Part I offenses	937	737	1,810	1,309	1,073
Part II offenses	1,208	1,128	2,573	1,943	1,644
Other proceedings	3,336	3,707	3,272	3,708	3,285
Family Courts	21,179	22,176	27,583	28,773	34,635
Civil cases	10,121	9,619	12,722	11,833	16,038
Criminal cases	47	45	233	149	163
Other proceedings	11,011	12,512	14,628	16,791	18,434
District Courts	913,554	965,262	879,430	900,934	899,473
Civil cases	22,597	18,926	18,920	19,509	20,354
Traffic cases	841,844	897,713	811,816	831,505	822,295
Other violations	24,066	23,351	20,803	18,101	26,842
Criminal cases	25,047	25,272	27,891	31,819	29,982
Part I offenses	4,275	5,259	5,340	4,777	4,326
Part II offenses	20,772	20,013	22,551	27,042	25,656

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 281 in 1980, 121 in 1981, 132 in 1982, 94 in 1983, 105 in 1984, 142 in 1985, and 135 in 1986.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data exclude cases transferred back to the Supreme Court: 1 in 1981, 4 in 1982, 1 in 1983, and 1 in 1984.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 142 .-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1983 TO 1985

[Years ended June 30]

Court and type of action	1983	1984	1985
Supreme Court, total	1,535	1,906	2,946
Primary cases	518	572	628
Appeals	485	534	570
Original proceedings	33	38	58
Supplemental proceedings	1,017	1,334	2,318
Intermediate Court of Appeals, total	179	158	208
Primary cases	91	101	132
Appeals	91	100	132
Original proceedings	-	1	-
Supplemental proceedings	88	57	76
Circuit Courts Proper, total	17,086	14,453	14,633
Primary proceedings	15,349	13,315	13,449
Civil actions	8,921	6,960	6,709
Probate proceedings	1,726	1,738	1,797
Guardianship proceedings	347	356	375
Miscellaneous proceedings	1,135	1,280	1,614
Criminal actions	3,220	2,981	2,954
Part I offenses	1,308	1,071	1,193
Part II offenses	1,912	1,910	1,761
Supplemental proceedings	1,737	1,138	1,184
Family Courts, total	24,597	27,644	30,049
Primary proceedings, referrals	20,829	22,250	24,409
Marital actions, proceedings	7,579	7,749	7,634
Adoption proceedings	800	759	770
Paternity/parental proceedings	1,214	1,398	993
Miscellaneous proceedings	2,533	3,011	2,884
Criminal actions	127	157	203
Adults' referrals	542	871	2,028
Children and minors' referrals	8,034	8,305	9,897
Supplemental proceedings	3,768	5,394	5,640
District Court, total	966,111	919,460	930,341
Civil	18,373	19,607	20,622
Regular	13,491	14,219	15,324
Small claims	4,882	5,388	5,298
Traffic	897,441	847,327	853,483
Moving - arrest and citation	194,055	190,216	200,158
Non-moving	135,156	134,406	139,493
Parking	568,230	522,705	513,832
Other violations	23,353	24,153	23,730
Criminal actions	26,944	28,373	32,506
Part I offenses	5,576	5,434	4,732
Part II offenses	21,368	22,939	27,774

Source follows next table.

Table 143 .-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1983 TO 1985

[Years ended June 30]

Court and type of termination	1983	1984	1985
Supreme Court, total	1,577	1,922	2,911
Opinion filed	279	220	283
Dismissal motion granted	20	31	19
Withdrawn or discontinued	99	100	106
Transferred	94	105	142
Other disposition	1,085	1,466	2,361
Intermediate Court of Appeals, total	223	184	179
Opinion filed	119	115	99
Dismissal motion granted	1	1	-
Withdrawn or discontinued	9	7	6
Transferred	1	1	-
Other disposition	93	60	74
Circuit Courts Proper, total	10,304	21,573	13,248
No service	279	991	332
No answer	626	965	436
No statement of readiness	64	78	23
Dismissal: Notice of	718	1,630	799
Stip. for	2,052	6,052	3,347
By judge	557	1,646	901
Nonjury: Trial	176	379	272
Trial not completed	15	17	14
Jury: Verdict	291	586	377
Trial not completed	15	41	16
No trial held	1,061	2,481	1,950
Hearings: Contested	385	246	361
Uncontested	1,527	1,957	1,905
Others	2,538	4,504	2,515
Family Courts, total	22,176	27,583	28,773
Nolle prosequi	15	23	12
Dismissal	5	89	33
Nonjury: Trial	43	67	35
Trial not completed	5	2	-
Jury: Verdict	4	-	1
Trial not completed	-	1	-
No trial held	1,184	1,083	909
Hearings: Contested	4,456	6,346	4,071
Uncontested	7,432	8,957	10,407
Counseling service	3,447	4,598	6,338
Others	5,585	6,417	6,967

Continued on next page.

Table 143.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1983 TO 1985 -- Con.

Court and type of termination	1983	1984	1985
District Court, total	965,262	879,430	900,934
Felonies	1,531	1,649	1,689
Stricken or discharged	299	381	230
By commitment to Grand Jury	629	140	52
By commitment to Circuit Court	603	1,128	1,407
Misdemeanors	23,741	26,242	30,130
By discharge or dismissal	6,822	7,405	7,833
By nolle prosequi	1,756	1,459	1,306
Stricken	1,544	1,499	1,546
By bail forfeiture	1,758	2,278	2,396
By commitment to Circuit Court	524	382	426
By conviction	11,337	13,219	16,623
Civil cases	18,926	18,920	19,509
By discontinuance or dismissal	7,776	7,392	7,086
By default or confession	9,665	10,689	11,644
By trial	1,386	720	662
By commitment to Circuit Court	102	119	117
Traffic and other violations	921,064	832,619	849,606
By discontinuance or dismissal	-	9	-
By discharge or dismissal	126,496	114,989	104,748
By nolle prosequi	21,668	19,840	21,479
Stricken	71,695	61,563	58,742
By bail forfeiture	559,093	516,075	518,649
By commitment to Circuit Court	27	73	96
By conviction	142,085	120,070	145,892

Source: *The Judiciary, State of Hawaii, Annual Report, July 1, 1982 to June 30, 1983, Statistical Supplement*, tables 1A, 1B, 7, 17, and 22; *The Judiciary, State of Hawaii, Annual Report, July 1, 1983 to June 30, 1984, Statistical Supplement*, tables 1A, 1B, 7, 17, and 22; *The Judiciary, State of Hawaii, Annual Report, July 1, 1984 to June 30, 1985, Statistical Supplement*, tables 1A, 1B, 7, 17, and 22.

Table 144.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1976 TO 1986

[Mean head count for fiscal years ended June 30. Excludes Kauai County Jail before June 20, 1977, when it was transferred to State control]

Year	All categories	Adult facilities 1/			Juvenile facilities 2/	
		Felons	Misdemeanants 3/	Not sentenced	Boys	Girls
1976	530	326	47	100	46	11
1977	544	319	39	117	56	13
1978	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	75	10
1981	952	561	82	210	88	11
1982	1,155	681	86	295	85	8
1983	1,402	812	120	391	73	6
1984	1,652	974	166	435	71	6
1985 4/ ..	1,898	1,223	204	392	72	7
1986	2,009	1,331	240	348	78	12

1/ As of 1986, data include eight separate facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Halawa High Security Facility, Women's Community Correctional Center, and Waiawa Correctional Facility.

2/ Hawaii Youth Correctional Facility.

3/ Includes felon probationers serving jail terms under one year.

4/ Revised from Data Book 1985, table 132.

Source: Hawaii State Intake Service Centers, November 18, 1986.

Table 145.-- MEDIAN AGES AND AVERAGE SENTENCES OF FELON POPULATION: 1976 TO 1986

[Years ended June 30. These data cover only those felons under the jurisdiction of the State's correctional facilities. These include long-term felons and those in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences]

Year	Median age (years) 1/		Average sentences (months)				
			Felons admitted		Felons released		
	At admission	Currently as of June 30	Minimum	Maximum	Minimum	Maximum	Time served
1976	25.7	26.2	43.8	80.5	31.5	126.3	30.2
1977	26.5	25.4	55.9	102.2	32.7	120.7	32.6
1978	25.3	27.6	52.6	99.1	38.5	108.0	35.8
1979	26.5	26.6	59.8	119.0	34.8	89.2	36.9
1980	26.1	25.3	69.4	151.3	53.7	113.6	46.4
1981	27.0	27.8	40.7	173.5	55.7	124.9	47.4
1982	26.8	27.3	38.8	135.8	58.8	131.6	52.2
1983	27.5	29.2	49.2	127.2	40.5	98.5	47.5
1984	27.9	30.3	53.8	142.2	39.7	112.8	46.2
1985	29.3	28.2	47.5	145.7	53.0	126.0	42.7
1986	30.4	29.4	33.3	133.5	54.1	122.7	39.8

1/ For felon population on June 30. Due to a change in data systems, data for 1983 and later years are not directly comparable with figures for previous years.

Source: State Department of Social Services and Housing, State Intake Service Centers, Trends of the Felon Population: Adults Committed to Correctional Facilities, FY 1974-75 to FY 1981-82, Report No. 83-001 (January 1983); Hawaii's Felons: A Statistical Report on Hawaii's Prison Population; Report No. 85-001 (August 1985); and records.

Table 146.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY: 1984 AND 1985

[Years ended June 30]

Item	1984	1985
Number of parolees, June 30 1/	496	603
Parolees in Hawaii	321	314
Parolees outside Hawaii	63	53
Absconders and suspensions (cumulative)	112	236
Minimum imprisonment terms fixed 2/	1,088	1,496
Number of persons for whom terms fixed	397	543
Persons considered for parole	173	286
Paroles tentatively granted	117	192
Paroles denied	45	94
Persons reconsidered for minimum terms previously set	150	115
Terms reset	6	2
Terms reset/parole granted	5	101
Terms undisturbed	107	9
Deferred reconsideration	32	3
Parole violation hearings	18	38
Parole revocations 2/	11	27
Continued on parole	7	8
Deferred decision/hearing	0	3
Pardon investigations	25	27
Persons pardoned	17	18
Persons whose paroles were suspended because their whereabouts unknown	13	22
Discharges	64	82
Discharged from parole	42	54
Final discharge	21	27
Decease	1	1

1/ In addition, provided courtesy supervision to 15 interstate cases on June 30, 1984 and 16 on June 30, 1985.

2/ 1984 figure revised from Data Book 1985, table 134.

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise, and other geographic and environmental measurements of Hawaii. Most statistics on land use and ownership, however, appear in Section 6.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the most extensive lake or similar body is Kawainui Marsh, 1,000 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: the 34 major beaches surveyed in 1985 were found to have fecal coliform levels per 100 ml. ranging from 2.0 to 286.1, and all but one were within EPA standards. More than 1,200 species, subspecies, and varieties of native fauna and flora have been proposed or accepted for inclusion on lists of endangered, threatened, or extinct organisms. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 94°F. Average precipitation, however, ranges from less than nine inches at Kawaihae to 444 inches atop Waialeale. The largest volcanic eruptions in Island history (1859 and 1950) each produced 600 million cubic yards of lava, the worst earthquake (1868) attained 7.5 on the Richter scale, the highest tsunami wave (1946) reached 56 feet, and the most destructive hurricane (Iwa, 1982) gusted to 117 miles per hour. Water withdrawn for use in 1980 averaged 2.9 billion gallons per day, compared with 2.8 billion in 1975 and 2.7 billion in 1970. Among 31 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 37 decibels (in Mililani) to 57 decibels (in Pawaa).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Atlas of Hawaii, 2nd edition, published by the University of Hawaii Press in 1983. National data are reported in Statistical Abstract of the United States: 1986, Section 7.

Table 147.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INTERNATIONAL AIRPORT		
Hawaiian Islands locations:		
Hilo, Hawaii	214	344
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Hong Kong	5,541	8,915
Johnston Atoll	820	1,319
Kingman Reef	1,073	1,726
Kiritimati (Christmas Island), Kiribati	1,344	2,163
Majuro, Marshall Islands	2,271	3,654
Manila, Philippines	5,293	8,516
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193
Palmyra Atoll	1,101	1,772
Papeete, Tahiti	2,741	4,410
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South American locations:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998

Continued on next page.

Table 147.-- GREAT CIRCLE DISTANCES BETWEEN SPECIFIED PLACES -- Con.

Place	Statute miles	Kilometers
DISTANCES FROM HONOLULU INT. AIRPORT--Con.		
North and South American locations, con.:		
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
OTHER DISTANCES		
Hilo to --		
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 2/	1,523	2,451
Log Point, Elliot Key, Florida 3/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

2/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

3/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1973), pp. 22-23, and distance computations prepared for the Department of Planning and Economic Development.

Table 148.-- LATITUDES AND LONGITUDES OF SELECTED PLACES

Island and place	Latitude (North)	Longitude (West)
Hawaii:		
Hilo (General Lyman Field)	19°43'	155°04'
Cape Kumukahi	19°31'	154°49'
Ka Lae	18°56'	155°41'
Keahole Point	19°44'	156°04'
Upolu Point	20°16'	155°52'
Maui:		
Wailuku	20°53'	156°30'
Kahului (Airport)	20°54'	156°26'
Hana	20°45'	155°59'
Cape Hanamanioa	20°35'	156°25'
Lahaina	20°52'	156°41'
Kahoolawe:		
Puu Moaulanui	20°34'	156°34'
Lanai:		
Airport	20°48'	156°57'
Molokai:		
Kaunakakai	21°05'	157°02'
Laau Point	21°06'	157°19'
Cape Halawa	21°10'	156°43'
Oahu:		
Honolulu: International Airport	21°20'	157°55'
Aloha Tower	21°19'	157°52'
Kaena Point	21°35'	158°17'
Kahuku Point	21°43'	157°59'
Makapuu Point	21°19'	157°39'
Diamond Head	21°16'	157°49'
Kauai:		
Lihue (Kauai Airport)	21°59'	159°21'
Mana	22°02'	159°46'
Kilauea Point	22°14'	159°24'
Niihau:		
Puuwai	21°54'	160°12'
Kure Atoll	28°25'	178°22'

Source: U.S. Board on Geographic Names, Gazetteer No. 24, Hawaiian Islands (1956); U.S. Department of Commerce, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1984 for Hilo, Kahului, Honolulu, and Lihue; U.S. Geological Survey, Elevations and Distances in the United States (1973), pp. 22-23; Bernice P. Bishop Museum, Geography and Map Division, information provided April 29, 1986.

Table 149.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha (Hawaii-Maui)	29.6	47.6	6,810	2,076
Alalakeiki (Kahoolawe-Maui)	6.7	10.8	822	251
Kealaikahiki (Kahoolawe-Lanai)	17.8	28.6	1,086	331
Auau (Lanai-Maui)	9.5	15.3	252	77
Kalohi (Lanai-Molokai)	9.2	14.8	540	165
Pailolo (Maui-Molokai)	8.8	14.2	846	258
Kaiwi (Molokai-Oahu)	25.8	41.5	2,202	671
Kauai (Oahu-Kauai)	72.1	116.0	10,890	3,319
Kaulakahi (Kauai-Niihau)	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:
Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, in November 1980.

Table 150.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilometers 3/	Statute miles	Kilometers 3/
State total	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, The Coastline of the United States (1975) and records.

Table 151.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982

[See maps on page 6]

County or island	Square miles Total	 Land 2/	 Inland water 3/
State total	6,470.8	6,425.2	45.6
Counties: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui	1,171.0	1,161.6	9.4
Kalawao	14.3	13.3	1.0
Honolulu 5/	620.9	596.7	24.2
Kauai 5/	629.4	619.4	10.0
Islands: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui 6/	734.5	728.6	5.9
Kahoolawe	45.9	45.0	0.9
Lanai	141.2	140.4	0.8
Molokai	263.7	260.9	2.8
Oahu	617.6	593.6	24.0
Kauai	558.2	549.4	8.8
Niihau 7/	71.1	70.0	1.1
Kaula	0.4	0.4	-
Northwestern Hawaiian Islands 8/....	2.910	2.690	0.220
Nihoa	0.238	0.238	-
Necker Island	0.105	0.105	-
French Frigate Shoals	0.081	0.081	-
Gardner Pinnacles	0.011	0.011	-
Maro Reef	Awash	Awash	Awash
Laysan Island	1.454	1.234	0.220
Lisianski Island	0.586	0.586	-
Pearl and Hermes Atoll	0.106	0.106	-
Kure Atoll	0.329	0.329	-

Continued on next page.

Table 151.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

County or island	Square kilometers 1/		Acres 1/	
	Total	Land 2/	Total	Land 2/
State total	16,759.3	16,641.2	4,141,312	4,112,128
Counties: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui	3,032.9	3,008.5	749,440	743,424
Kalawao	37.0	34.4	9,152	8,512
Honolulu 5/	1,608.1	1,545.4	397,376	381,888
Kauai 5/	1,630.1	1,604.2	402,816	396,416
Islands: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui 6/	1,902.3	1,887.1	470,080	466,304
Kahoolawe	118.9	116.5	29,376	28,800
Lanai	365.7	363.6	90,368	89,856
Molokai	683.0	675.7	168,768	166,976
Oahu	1,599.6	1,537.4	395,264	379,904
Kauai	1,445.7	1,422.9	357,248	351,616
Niihau 7/	184.1	181.3	45,504	44,800
Kaula	1.0	1.0	256	256
Northwestern Hawaiian Islands 8/	7.5	7.0	1,862	1,722
Nihoa	0.6	0.6	152	152
Necker Island	0.3	0.3	67	67
French Frigate Shoals	0.2	0.2	52	52
Gardner Pinnacles	0.0	0.0	7	7
Maro Reef	Awash	Awash	Awash	Awash
Laysan Island	3.8	3.2	931	790
Lisianski Island	1.5	1.5	375	375
Pearl and Hermes Atoll	0.3	0.3	68	68
Kure Atoll	0.9	0.9	211	211

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

Continued on next page.

Table 151.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands having less than 40 acres of area.

4/ Because of rounding, island figures may not add to county figures.

5/ Revised to reflect inclusion of Kaula in the City and County of Honolulu rather than in the County of Kauai, as formerly shown; see Hawaii State Department of the Attorney General, "County Jurisdiction Over Kaula," memorandum to Kent M. Keith, August 18, 1986.

6/ Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles or 0.075 square kilometers).

7/ Includes Lehua, previously reported as 243 acres (0.38 square miles or 0.98 square kilometers).

8/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

Source: Unpublished data supplied by the Geography Division, U.S. Bureau of the Census, May 5, 1983; cited in the Hawaii State Department of Planning and Economic Development, Remeasurements of the Area of Hawaii, 1982 (Statistical Memorandum 83-6, May 18, 1983).

Table 152.-- LAND AREA OF NEARBY ATOLLS NOT UNDER STATE JURISDICTION

Atoll	Year of source	Number of islets	Land area		
			Square miles	Hectares	Acres
Midway Islands	1955	5	2.003	518.8	1,282
Johnston Atoll	1976	4	0.994	257.4	636
Kingman Reef	-	-	Awash	Awash	Awash
Palmyra Atoll	c. 1975	1/ 39	2.188	566.6	1,400

1/ Most of Palmyra's 39 islets are now joined by causeways and accretion of coral sand.

Source: Lee S. Motteler, Geography and Map Division, Bishop Museum, July 23, 1986.

Table 153.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands: Total	Number of islands: Inhabited, 1980 1/	Land area (square miles)
All named islands	137	15	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	8	7.6
Offshore of major islands	96	4	2.6
Northwestern Hawaiian Islands 3/	33	4	4.9
Part of State	28	3	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 4.
2/ For individual data, see DPED Report GN-6, pp. 3-7.
3/ The 33 islets are in 10 clusters.
Source: Hawaii State Department of Planning and Economic Development, Geographic Names Approved, Second Quarter 1969 (Report GN-6, July 8, 1969), p. 8; data for Midway Islands supplied by Lee S. Motteler, Bishop Museum.

Table 154.-- AREA AND DEPTH OF SELECTED CRATERS

Island and crater	Area (acres)	Maximum depth (feet)
Hawaii:		
Kilauea Caldera	2,319	476
Mokuaweoweo Crater 1/	2,221	572
Maui:		
Haleakala Crater 2/	12,575	3,028
Oahu:		
Diamond Head Crater	255	562
Koko Crater	133	968
Punchbowl Crater	62	140

1/ Data exclude North and South Pits.
2/ Data exclude Koolau and Kaupo Gaps.
Source: Measured from U.S. Geological Survey maps by DPED.

Table 155.-- ELEVATIONS OF MAJOR SUMMITS

[Elevation of the highest point on each island
and other important peaks]

Island and mountain	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 2/	13,679	4,169
Hualalai	8,271	2,521
Kaumu o Kaleihoohie	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Puu Moaulanui	1,483	452
Puu Moaulaiki	1,434	437
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu:		
Kaala	4,017	1,224
Puu Kalena	3,504	1,068
Konahuanui	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

Continued on next page.

Table 155.-- ELEVATIONS OF MAJOR SUMMITS -- Con.

Island and mountain	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	699	213
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands	12	4
Kure Atoll	20	6

1/ According to the *1986 Guinness Book of World Records* (p. 94), "The world's tallest mountain measured from its submarine base (3,280 fathoms) in the Hawaiian Trough to peak is Mauna Kea ... with a combined height of 33,476 ft, of which 13,796 ft are above sea level."

2/ *Guinness* (p. 94) describes Mauna Loa as having "dimensions, but not height, [which] exceed those of Mt Everest .... The axes of its elliptical base, 16,322 ft below sea level, have been estimated at 74 mi and 53 mi."

Source: U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; National Geodetic Survey 1969 figure for Kaala, provided by U.S. Geological Survey, Honolulu office, July 23, 1984; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll). Data compiled with assistance of Lee S. Motteler, Bernice P. Bishop Museum.

Table 156.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	165
Maui	Iao Stream	50
Molokai	Wailau Stream	30
Oahu	Waikele Stream	25
Kauai	Hanalei River	150

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (1.9), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Longest water feature from U.S. Geological Survey, records; other data from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 157.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1986

Island and lake	Type	Elevation (feet)	Area 1/ (acres)	Maximum depth (feet)
Hawaii:				
Aimakapa	Coastal pool .	(SL)	15	(NA)
Green Lake	Lake	3	2	20
Lake Waiau 2/	Lake	13,020	2	10
Waiakea Pond	Tidal pond ...	(SL)	27	7
Maui:				
Kanaha Pond	Marsh	(SL)	41	<3
Kealia Pond	Marsh	(SL)	500	(NA)
Violet Lake	Bog pool	5,020	0.02-1	(NA)
Wai Anapanapa	Pond	6,790	0.2	(NA)
Waieleele	Pond	6,690	0.5	21
Molokai:				
Kauhako	Pool	(SL)	0.9	814
Kualapuu Reservoir ..	Reservoir	821	100	50
Meyer Lake	Impoundment ..	2,021	6-10	5
Oahu:				
Kaelepulu Pond	Lake	(SL)	198	(NA)
Kawainui Marsh	Marsh	(SL)	1,000	(NA)
Salt Lake	Lake	(SL)	49	2
Wahiawa Reservoir ...	Reservoir	842	302	85
Kauai:				
Nomilu Fishpond	Pond	(SL)	20	66
Waita Reservoir	Reservoir	241	424	23
Niihau:				
Halalii Lake	Playa	(SL)	841-865	(NA)
Halulu Lake	Playa	(SL)	182-371	(NA)
Laysan:				
Unnamed closed lagoon	Closed lagoon	(SL)	161	16

NA Not available.

SL Sea level.

1/ Ranges shown for Violet Lake, Meyer Lake, Halalii Lake, and Halulu Lake reflect differences in estimates between sources.

2/ Highest lake in the State and third highest in the United States.

Continued on next page.

Table 157.-- LAKES AND LAKE-LIKE WATERS, BY ISLANDS: 1986 - Con.

Source: J.A. Maciolek, *Lakes and Lake-like Waters of the Hawaiian Archipelago* (Bernice P. Bishop Museum, Occasional Papers, Vol. XXV, No. 1, April 30, 1982; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data provided June 12, 1985 and May 6, 1986; Hawaii State Department of Planning and Economic Development, *Resource Management Plan for Kawainui Marsh* (March 1983); William H. Meyer, U.S. Fish and Wildlife Service, transmittal letter (to DPED, Coastal Zone Management Program), for *Kealia Pond National Wildlife Refuge, Maui, Hawaii, Final EIS* (EIS No. 116, August 1981).

Table 158.-- MAJOR NAMED WATERFALLS, BY ISLANDS

Island	Waterfall	Height (feet)		Horizontal distance (feet)
		Sheer drop	Cascade	
Hawaii ..	Kaluahine	...	620	400
	Akaka	442	...	...
Maui	Honokohau	...	1,120	500
Molokai .	Kahiwa	...	1,750	1,000
	Papalaua	...	1,200	500
Oahu	Kaliuwaa (Sacred) 1/ .	80	1,520	3,000
Kauai ...	Waipoo (2 falls)	...	800	600
	Awini	...	480	500

1/ Sheer drop refers to northernmost fall of a cascade of six falls.

Source: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 159.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

1/ According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by the Guinness Book of World Records (1986 edition, p. 99) as "the highest sea cliffs yet pinpointed anywhere in the world."

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 160.-- VOLCANIC ERUPTIONS: 1975 TO 1986

[Complete through October 24, 1986. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active during the past decade and included in this table]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	301	<1	Summit	13,000	5.2	35,000
1984: March 25	104	22	Summit, East rift	13,200-9,400	11±	230,000
Kilauea:						
1975: Nov. 29	11.0	<1	Caldera	3,600-3,520	0.1	300
1977: Sept. 13	21.5	18	East rift	2,080-1,600	3.0	45,000
1979: Nov. 16	26.3	1	East rift	3,270-3,200	0.1	800
1982: April 30	29.5	<1	Caldera	3,630	0.1	260
Sept. 25	4.9	<1	Caldera	3,620	0.3	3,900
1983: Jan. 3 1/	3.3	1,390	East rift	2,560-2,120	52.1	633,000

1/ Still in progress, October 24, 1986. As of that time, there had been 48 separate episodes, with a combined length of 71.9 days.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 8th edition (Hawaii Natural History Association, 1982), pp. 10, 19, 34, and 58, as updated by the staff of the Hawaiian Volcano Observatory, November 10, 1986.

Table 161.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1975 TO 1985

[Complete to December 31, 1985. Revised from Data Book 1985, table 146]

Date and time		Location	Magnitude (Richter Scale)
1975:	Jan. 2, 3:27 AM ...	Near Pahala, Hawaii	5.0
	Nov. 29, 3:35 AM ..	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM ..	Puna, Hawaii	7.2
1976:	Feb. 20, 7:51 PM ..	Between Maui and Hawaii ..	5.1
1977:	Jan. 22, 12:36 PM .	100 miles S. of Kauai	5.1
	Apr. 20, 6:49 PM ..	Hamakua, Hawaii	5.0
	Jun. 5, 11:42 PM ..	Puna, Hawaii	5.1
1979:	Mar. 29, 11:06 PM .	40 miles S.W. of Oahu	5.5
	Sept. 21, 9:59 PM .	Puna, Hawaii	5.5
1981:	Mar. 5, 4:09 AM ...	Molokai area	5.3
	Nov. 10, 3:02 AM ..	Kilauea, Hawaii	5.3
1982:	Jan. 21, 11:52 AM .	Mauna Loa, Hawaii	5.5
	Jan. 21, 12:29 PM .	Mauna Loa, Hawaii	5.5
	May 14, 6:26 AM ...	Off Kawaihae, Hawaii	5.0
1983:	Mar. 20, 5:18 PM ..	Off Kalapana, Hawaii	5.0
	Sept. 9, 6:30 AM ..	Off Kalapana, Hawaii	5.4
	Nov. 16, 6:13 AM ..	S.E. flank of Mauna Loa ..	6.7
1984:	Jun. 8, 5:34 PM ...	80 miles S. of Honolulu ..	5.3

Source: Hawaii Institute of Geophysics, records; Hawaii Volcano Observatory Summaries; U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii, September 16, 1986.

Table 162 .-- EARTHQUAKES WITH HONOLULU INTENSITIES OF V OR GREATER: 1859 TO 1983

[Based on data for 113 earthquakes recorded in Honolulu, from 1859 through 1983]

Date		Epicentral location	Magnitude (Richter scale)	Honolulu average intensity (Modified Mercalli Scale 1/)
1861:	Dec. 5 ..	Molokai-Lanai vic. (?) .	(?)	Mid V
	Dec. 15 .	Molokai-Lanai vic. (?) .	(?)	Lower V
1868:	Apr. 2 ..	SE coast of Hawaii	7.5	Upper IV - lower V
	Apr. 4 ..	Maui group vicinity (?)	(?)	Lower V
1871:	Feb. 19 .	S coast of Lanai	7.0	Upper VI - lower VII
1895:	Dec. 8 ..	Oahu vicinity (?)	(?)	Mid V
1926:	Mar. 19 .	N of Kohala, Hawaii	(?)	Upper IV - lower V
1929:	Oct. 5 ..	W of Kona, Hawaii	6.5	Lower V
1938:	Jan. 22 .	N of Maui	6.8	Upper V - lower VI
1948:	June 28 .	S coast of Oahu	4.8	Mid VI
1964:	Oct. 11 .	Ka Lae, Hawaii	5.5	Upper IV - lower V
1973:	Apr. 26 .	Hamakua coast, Hawaii ..	6.2	Mid V
1981:	Mar. 5 ..	Kalohi Channel	5.0	Mid V

1/ Modified Mercalli Scale of 1931, 1956 abridged version. This scale, which extends from I to XII, reads in part:

IV. Hanging objects swing. Vibration like passing of heavy trucks; or sensation of a jolt like a heavy ball striking the walls. Standing motor cars rock. Windows, dishes, doors rattle. Glasses clink. Crockery clashes. In the upper range of IV wooden walls and frame creak.

V. Felt outdoors; direction estimated. Sleepers wakened. Liquids disturbed, some spilled. Small unstable objects displaced or upset. Doors swing, close, open. Shutters, pictures move. Pendulum clocks stop, start, change rate.

VI. Felt by all. Many frightened and run outdoors. Persons walk unsteadily. Windows, dishes, glassware broken. Knickknacks, books, etc., off shelves. Pictures off walls. Furniture moved or overturned. Weak plaster and masonry cracked. Small bells ring (church, school). Trees, bushes shaken (visibly, or heard to rustle).

VII. Difficult to stand. Noticed by drivers of motor cars. Hanging objects quiver. Furniture broken. Damage to weak masonry, including cracks. Weak chimneys broken at roof line. Fall of plaster, loose bricks, stones, tiles cornices. Some cracks in ordinary masonry. Waves on ponds; water turbid with mud. Small slides and caving in along sand or gravel banks. Large bells ring. Concrete irrigation ditches damaged.

Source: Doak C. Cox, "Earthquake Experience and Seismic Risk in Honolulu" (paper presented to the Hawaiian Historical Society, Honolulu, March 6, 1986), and letter dated June 23, 1986.

Table 163.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1946 TO 1986

[Correct to December 31, 1986]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, Catalog of Tsunamis in the Hawaiian Islands (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. III (1969), pp. 66-86; Harold G. Loomis, The Tsunami of November 29, 1975 in Hawaii (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, Local Tsunamis and Possible Local Tsunamis in Hawaii (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Hawaii Institute of Geophysics, records.

Table 164.-- MAJOR DAMS: 1986

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 165.-- WATER USE, BY TYPE, BY ISLANDS: 1980

[Millions of gallons per year]

Type of water and use	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai	Niihau
Agricultural:								
Ground water	136,510	1,720	47,300	330	140	70,360	16,650	10
Surface water	237,950	3,630	129,130	-	990	16,170	88,030	-
Recycled water	32,970	50	9,730	-	-	3,350	19,840	-
Commercial:								
Ground water	2,770	1,470	-	-	-	410	890	-
Domestic:								
Ground water	71,770	2,280	3,830	140	270	63,250	1,990	10
Surface water	3,880	130	3,500	-	80	-	170	-
Hydroelectric:								
Surface water	74,190	22,840	14,620	-	-	-	36,730	-
Industrial, thermoelectric:								
Ground water	31,520	24,740	-	-	10	4,880	1,890	-
Surface water	2,170	-	-	-	-	-	2,170	-
Seawater 1/	447,810	3,140	14,820	-	-	425,900	3,950	-
Industrial, other uses:								
Ground water	18,680	2,030	2,810		-	7,340	6,500	-
Surface water	11,220	4,080	2,910	-	30	-	4,200	-
Recycled water	4,130	1,900	160	-	-	200	1,870	-

1/ Includes water from wells near the seacoast.

Source: Data compiled by U.S. Geological Survey, cited in Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, Water Use in Hawaii, 1980 (Report No. R-79, 1984).

Table 166 .-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1981 TO 1985

Subject and geographic area	1981	1982	1983	1984	1985
NUMBER OF SERVICES, JUNE 30					
State total	178,250	179,648	181,980	185,044	188,271
City and County of Honolulu .	125,903	126,400	127,540	129,080	130,884
Honolulu 1/	58,349	58,159	58,173	58,462	58,801
Rest of Oahu	67,554	68,241	69,367	70,618	72,083
Hawaii County	23,215	23,682	24,218	24,834	25,315
Kauai County	10,632	10,823	11,049	11,501	11,872
Maui County	18,500	18,743	19,173	19,629	20,200
Maui	17,376	17,607	18,007	18,413	18,964
Molokai	1,124	1,136	1,166	1,216	1,236
CONSUMPTION 2/ (MILLION GALLONS)					
State total	58,574	56,719	59,724	63,670	65,298
City and County of Honolulu .	44,216	42,646	44,535	47,389	48,308
Honolulu 1/	25,086	24,317	25,658	26,636	27,218
Rest of Oahu	19,130	18,329	18,877	20,753	21,090
Hawaii County	4,664	4,753	5,066	5,409	5,666
Kauai County	2,780	2,805	3,240	3,492	3,531
Maui County	6,914	6,515	6,883	7,380	7,793
Maui	6,620	6,235	6,592	7,073	7,493
Molokai	294	280	292	307	300

1/ Maunalua to Moanalua.

2/ Year ended June 30.

Source: Data compiled by Hawaii State Department of Planning and Economic Development from Honolulu Board of Water Supply, Hawaii County Department of Water Supply, Kauai Department of Water, and Maui Department of Water Supply.

Table 167.-- POLLUTION ABATEMENT COSTS AND EXPENDITURES: 1984

[Millions of dollars. Statistics cover manufacturing establishments with 20 employees or more]

Subject	State total
Total pollution abatement capital expenditures	6.8
Gross annual cost of pollution abatement	10.8
Payments to government units	0.8
Operating costs, total	10.0
Cost recovered through abatement activities	0.6
Operating costs by form of pollutants abated:	
Air	2.3
Water	5.1
Solid waste, hazardous	0.3
Solid waste, non-hazardous	2.3
Operating costs by kind of cost:	
Depreciation	1.6
Labor	2.4
Materials and supplies	3.3
Services, equipment leasing, and other costs	2.7

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1984," Current Industrial Reports, MA-200(84)-1 (May 1986), pp. 16, 34, and 49.

Table 168.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1982 TO 1985

Island and beach	Number of samples, 1985	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1982	1983	1984	1985
Hawaii (Hilo Shoreline Area):					
Exit of Ice Pond	17	27.3	27.5	15.6	78.2
Leileiwi Beach Park	9	222.6	121.1	109.7	182.1
Onekahakaha	9	17.3	6.4	5.6	8.8
Puhi Bay No. 3	9	18.1	12.6	12.9	286.1
Hawaii (Kona Shoreline Area):					
Hapuna Beach	11	33.0	15.2	5.3	3.9
Kahaluu Beach	11	2.3	6.4	2.6	2.8
Kealakekua Bay (curio stand)	11	2.3	3.9	3.3	4.6
Kealakekua Bay (canoe landing)	11	2.3	4.4	4.4	3.9
Magic Sands Beach	11	8.0	3.4	5.4	4.7
Puako Beach Lots (middle)	11	29.6	21.4	9.5	11.6
Puako Beach Lots (south end)	11	74.0	21.2	46.2	20.6
Spencer Beach Park	11	14.6	4.7	9.8	6.7
Maui:					
Hukilau Hotel shoreline	11	2.9	3.3	3.0	7.4
Oahu:					
Ala Moana Park (ewa)	25	11.0	6.8	5.7	6.7
Ala Moana Park (center)	12	4.9	2.0	2.7	3.3
Ala Moana Park (diamond head)	12	5.8	6.2	3.1	7.9
Elks Club Beach	12	4.9	4.0	5.4	6.2
Ewa Beach	11	5.5	4.4	4.8	5.1
Ft. DeRussy Beach	12	18.5	5.6	6.8	5.0
Gray's Beach	23	6.0	5.7	5.4	7.3
Hanauma Bay	12	13.0	6.8	9.5	17.7
Kahana Park Beach	12	62.2	24.0	58.2	54.1
Kahanamoku Beach	12	3.3	3.4	2.4	3.7
Kahanamoku Lagoon (diamond head)	23	38.5	23.3	16.8	77.0
Kailua Bay outfall shoreline	12	5.3	2.0	3.8	2.8
Kailua Beach Park	11	5.7	3.1	2.5	5.0
Kokokahi Pier	11	48.5	29.8	12.1	114.5
Kuhio Beach	12	23.9	9.7	8.4	22.5
Public Bath Beach	23	3.3	2.5	3.3	4.8
Tavern Beach	12	7.3	4.4	6.1	9.1
Sand Island, Pt. No. 3	12	2.7	2.9	2.3	4.2

Continued on next page.

Table 168.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1982 TO 1985 - Con.

Island and beach	Number of samples, 1985	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1982	1983	1984	1985
Kauai:					
Brennecke Beach	3	2.0	4.1	2.5	2.0
Hanalei Bay Landing	3	60.1	86.0	42.8	51.2
Poipu Beach	3	2.5	2.0	4.4	2.0

MPN Most probable number.

1/ The geometric mean standard for fecal coliform density is 200 MPN per 100 ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1986.

Table 169 .-- LITTER ALONG OAHU HIGHWAYS: 1978 TO 1985

Measure	1978	1979	1981	1985
Visible litter items per mile:				
35 sites	2,128	1,369	1,471	1,110
52 sites 1/	2,135	1,452	1,576	1,261
Visible beer/soft drink containers per mile:				
35 sites	367	187	93	60
52 sites 1/	292	148	71	51
Indiscriminate dumps per 1,000 miles of driving	(NA)	8.2	15.7	19.6
Abandoned vehicles per 1,000 miles of driving	(NA)	4.9	23.6	57.4

NA Not available.

1/ 1978 and 1979 estimated.

Source: Daniel B. Syrek, Hawaii Litter: 1985 (Sacramento: The Institute for Applied Research, for the Hawaii State Department of Health, Litter Control Office, May 23, 1985).

Table 170.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1975 TO 1985

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
1983	26	<5
1984	25	<5
1985	24	<5
Standards: 1/		
Primary	75	80
Secondary	60	...

1/ Primary and secondary National Ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1986.

Table 171.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1985

[24-hour sampling, in micrograms per cubic meter]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arithmetic average	Annual range		Arithmetic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point ...	24	138	52	<5	25	<5
Downtown Honolulu	10	48	24	<5	5	<5
Liliha	11	254	46	...	...	...
Pearl City 1/ ...	16	62	35	...	...	...
Waimanalo	13	52	26	...	...	...
Maui:						
Kahului 2/	26	105	57	<5	31	6.2
Kihei 2/	16	190	54	...	...	...
Hawaii:						
Hilo 2/	8	28	6	<5	6	<5
Kona 3/	6	22	12	<5	8	<5
Kauai:						
Lihue 4/	17	76	34	...	...	...

1/ Discontinued sampling for SO_2 on January 1, 1985.
2/ Site discontinued October 1, 1985; samples based on 9 months of data.
3/ Site established June 1, 1985 at Kona Hospital.
4/ Data based on 9 months of sampling.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied April 29, 1986.

Table 172.-- SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1980

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100.0	100.0	100.0	100.0	100.0
Transportation	43.0	38.1	47.4	40.6	35.8
Motor vehicles	40.1	36.2	43.9	35.7	33.1
Aircraft	2.3	1.1	2.9	2.3	1.6
Vessels	0.6	0.8	0.6	2.6	1.1
Fuel combustion in stationary sources	29.7	34.9	26.7	32.2	35.3
Steam electric	23.1	19.8	24.6	18.5	22.4
Gas utilities	0.1	(N)	0.1	(N)	(N)
Agricultural fuel	6.5	15.1	2.0	13.7	12.9
Industrial process losses ..	14.6	7.7	20.3	3.2	3.5
Refinery	4.8	(N)	6.5	(N)	(N)
Petroleum storage	0.7	1.1	0.8	(N)	0.5
Metalurgical	0.1	(N)	0.1	(N)	(N)
Mineral products	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms and industries	2.1	2.7	2.1	2.3	1.9
Municipal incinerator	0.9	(N)	1.3	(N)	(N)
Agricultural burning	11.7	19.3	4.3	24.2	25.4

N Less than 0.05 percent.

Source: Hawaii State Department of Health, Environmental Permits Branch, information provided April 28, 1986.

Table 173.-- NOISE LEVELS DURING DAYLIGHT HOURS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
Aina Haina	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa	48.1	43.1	40.1	52.9	45.8	42.5
Downtown	57	55	54	60	57	55
Hawaii Kai	46.5	41.6	38.9	53.5	46.9	42.9
Kahala	48.0	44.5	42.4	-	-	-
Kaimuki	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi	53.5	49.6	47.4	-	-	-
Kapahulu	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou	48.6	45.9	43.4	52.5	47.9	45.4
Liliha	46	45	43	-	-	-
Makiki	52.7	46.9	45.3	56.5	50.5	48.6
Manoa	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu	46.6	43.6	40.8	-	-	-
Palolo	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa	59.8	57.1	55.2	60.8	57.1	54.7
Salt Lake	56	52	49	-	56	51
Waikiki	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki ...	46.4	43.1	40.6	54.6	44.8	41.7
Aiea	58	54	52	59	56	54
Halawa	52	46	44	55	50	47
Hauula	53	48	45	56	51	47
Kailua	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe	43.8	40.9	38.9	49.7	43.5	40.9
Mililani	44	37	34	53	46	41
Nanakuli	54	50	47	58	52	48
Pearl City	51	47	45	55	50	48
Wahiawa	47.1	44.7	42.4	51.8	47.3	43.9
Waimanalo	53	50	48	55	51	49
Waipahu	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, records.

Table 174 .-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	30	71.1	75.8	53	94	129
Hawaii Volcanoes Nat. Park Hdq. .	3,970	57.6	63.2	37	85	101
Naalehu	675	70.2	75.2	(NA)	(NA)	47
Kailua	30	72.1	77.3	54	93	25
Puako 1/	5	73.1	79.8	52	98	10
Waimea (Kamuela)	2,670	61.3	66.8	34	90	31
Honokaa	1,070	67.6	75.5	(NA)	(NA)	86
Mauna Kea summit 2/	13,796	31.3	42.5	11	66	20
Maui:						
Hana	120	71.3	76.8	50	90	69
Haleakala summit	10,025	42.6	50.0	14	73	44
Kihei 3/	85	70.9	78.4	49	98	13
Kahului Airport	40	71.5	79.2	48	96	19
Lahaina	45	71.5	78.0	52	93	15
Molokai:						
Kaunakakai	10	(NA)	(NA)	(NA)	(NA)	14
Molokai Airport	450	70.2	77.6	48	90	27
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	37
Oahu:						
Honolulu International Airport ..	10	72.6	81.0	53	94	23
Waikiki (Honolulu Zoo)	10	71.9	80.6	51	93	25
Manoa (Lyon Arboretum)	500	69.4	75.2	(NA)	(NA)	158
Kaneohe MCAS	10	72.9	79.1	58	90	40

Continued on next page.

Table 174.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Oahu (con.):						
Kahuku	25	71.6	78.8	49	95	40
Wheeler AFB	845	68.2	75.5	52	89	40
Waianae	10	72.1	79.7	45	96	20
Kauai:						
Kilauea (town)	315	68.7	75.6	49	94	68
Lihue Airport	100	71.2	79.1	50	90	44
Poipu (Makahuena Pt.)	50	72.4	79.4	50	93	35
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	83	70
Waialeale	5,075	(NA)	(NA)	(NA)	(NA)	444
Northwestern Hawaiian Islands:						
Midway	10	65.0	78.6	52	89	44

NA Not available.
1/ Temperature data are for Mahukona.
2/ Based on incomplete and non-continuous data for 1966-1972. Precipitation estimated.
3/ Temperature data refer to Puunene Airport.
Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 19, 1986.

Table 175.-- CLIMATIC NORMALS, MEANS, AND EXTREMES FOR HILO, KAHULUI, HONOLULU, AND LIHUE AIRPORTS

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (°F.):				
Daily maximum	81.2	83.8	84.2	81.1
Daily minimum	65.9	67.2	69.7	69.3
Montnly: Coolest month	71.1	71.5	72.6	71.2
Warmest month	75.8	79.2	81.0	79.1
Annual	73.5	75.5	77.0	75.2
Extreme temperatures (°F.):				
Record highest	94	96	94	90
Record lowest	53	48	53	50
Normal degree days, base 65°F.:				
Heating	-	-	-	-
Cooling	3,134	3,851	4,389	3,758
Precipitation (inches):				
Normal	128.15	19.85	23.47	44.02
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
Relative humidity (percent):				
8 A.M.	80	74	72	78
2 P.M.	68	57	56	66
Wind speed (m.p.h.):				
Mean	7.1	12.8	11.6	11.9
Fastest observation, 1 minute 1/	29	44	46	65
Percent of possible sunshine	41	69	67	56
Mean number of days:				
Clear	35.5	130.3	87.5	53.4
Partly cloudy	128.8	145.1	179.1	179.9
Cloudy	201.0	89.9	98.5	132.0
Precipitation .01 inch or more	278.7	96.7	100.1	201.4

T Trace amount.

1/ Kahului figure refers to fastest mile.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary with Comparative Data, 1985* for Hilo, Kahului, Honolulu, and Lihue.

Table 176.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F)			Extreme temperature (°F) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
January ...	79.9	65.3	72.6	87	53	3.79	14.74	0.21	6.72
February ..	80.4	65.3	72.8	88	53	2.72	13.68	0.06	6.88
March	81.4	67.3	74.3	88	55	3.48	20.79	0.01	17.07
April	82.7	68.7	75.7	89	57	1.49	8.92	0.01	4.21
May	84.8	70.2	77.5	90	60	1.21	7.23	0.05	3.44
June	86.2	71.9	79.1	91	65	0.49	2.46	T	2.28
July	87.1	73.1	80.1	92	67	0.54	2.01	0.03	1.03
August	88.3	73.6	81.0	93	67	0.60	3.08	T	2.35
September .	88.2	72.9	80.6	93	66	0.62	2.74	0.05	1.40
October ...	86.7	72.2	79.5	94	64	1.88	11.15	0.11	7.57
November ..	83.9	69.2	76.6	90	58	3.22	14.72	0.03	9.15
December ..	81.4	66.5	74.0	89	54	3.43	12.09	0.06	8.14
Annual	84.2	69.7	77.0	94	53	23.47	20.79	T	17.07

Continued on next page.

Table 176.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 4/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest obs. 3/			Clear	Cloudy	
Jan. ...	82	63	9.7	32	62	5.5	9.1	8.8	10.1
Feb. ...	78	59	10.5	30	64	5.7	7.4	8.3	9.3
Mar. ...	73	58	11.6	30	68	5.9	7.2	9.7	9.1
Apr. ...	70	57	12.0	31	66	6.2	5.4	10.6	9.3
May	68	54	12.1	30	68	6.0	6.4	9.5	7.3
June ...	67	53	12.8	26	70	5.7	5.7	7.0	5.9
July ...	68	52	13.5	28	73	5.3	7.6	5.3	7.4
Aug	68	53	13.2	28	75	5.3	7.9	6.3	6.4
Sept. ..	68	52	11.5	26	75	5.2	8.1	5.9	7.1
Oct. ...	69	55	10.8	25	68	5.7	7.4	8.5	8.9
Nov. ...	75	59	10.8	46	61	5.7	7.1	9.3	9.3
Dec. ...	79	61	10.6	29	59	5.5	8.3	9.4	10.0
Ann. ...	72	56	11.6	46	67	5.6	87.5	98.5	100.1

T Trace amount.

1/ For periods October 1962 through December 1964 and September 1971 through December 1985.

2/ Data for 1963, 1964, and 1972-1985.

3/ Fastest observation, 1 minute, during 5-year period of record.

4/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1985.

Table 177.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1975 TO 1985

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90
1981 ...	77.1	73.2	80.7	53	90	13.41
1982 ...	76.9	71.7	81.4	56	92	34.92
1983 ...	77.2	71.3	82.4	53	92	5.03
1984 ...	78.1	74.1	81.7	57	94	17.08
1985 ...	76.9	71.4	81.9	54	93	17.38

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile 1/		
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115
1981 ...	76	59	10.7	30	72	97
1982 ...	73	59	10.4	46	56	124
1983 ...	75	52	9.8	23	64	78
1984 ...	72	53	10.2	40	71	81
1985 ...	72	55	10.6	46	69	87

1/ 1984 and 1985 figures refer to peak gust.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii (annual).

Table 178.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.)	February	Mauna Kea summit	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit	31.3
Highest monthly average maximum temp. (°F.)	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F.)	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)		Kawaihae	8.7
Highest average annual rainfall (inches)		Waialeale	444
Single events:			
Lowest temperature of record (°F.)	Jan. 20, 1970	Mauna Kea summit 2/	1.4
Highest temperature of record (°F.)	April 27, 1931	Pahala	100
Lowest annual rainfall of record (inches)	1953	Kawaihae	0.2
Highest annual rainfall of record (inches)	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Nov. 23, 1982	Makahuena Pt. 3/	117

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39° F.

3/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 19, 1986.

Table 179.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1975 TO 1985

[In inches]

Year	Hawaii			Maui		
	Hilo Airport	Waimea 1/	Kona Village	Kahului Airport	Kihei	Lahaina
1975 ...	99.93	12.35	15.64	13.74	10.63	12.19
1976 ...	114.67	11.10	7.04	12.83	8.84	8.86
1977 ...	90.38	5.42	3.40	11.50	7.88	8.28
1978 ...	119.09	14.83	8.68	19.15	9.91	11.97
1979 ...	158.77	29.23	16.00	26.82	21.32	20.85
1980 ...	127.74	28.31	16.90	27.87	20.27	22.69
1981 ...	89.91	13.30	7.02	12.85	9.72	8.13
1982 ...	170.36	56.29	26.88	34.04	29.11	34.36
1983 ...	68.09	12.95	8.51	13.05	8.60	9.70
1984 ...	100.08	8.87	8.15	8.56	5.64	6.30
1985 ...	112.96	16.58	8.60	20.00	13.86	13.48

Year	Oahu			Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Koloa	Lihue Airport	Princeville
1975 ...	25.98	39.25	101.42	49.91	35.52	62.36
1976 ...	13.59	26.83	86.44	62.60	32.83	109.34
1977 ...	15.73	32.83	88.96	52.51	40.34	84.55
1978 ...	27.18	41.56	124.42	70.64	39.11	130.82
1979 ...	26.22	46.74	111.56	55.98	37.09	93.19
1980 ...	28.50	48.52	140.70	78.78	54.64	130.55
1981 ...	19.09	31.71	112.46	66.26	38.14	130.72
1982 ...	39.96	57.98	168.16	96.75	74.40	241.22
1983 ...	9.80	19.77	74.32	50.69	16.40	46.93
1984 ...	19.35	33.13	71.32	48.82	30.12	71.58
1985 ...	25.61	42.19	101.20	48.70	28.91	55.22

NA Not available.

1/ Lalamilo Field Office.

Source: U.S. Department of Commerce, National Climatic Data Center, Climatological Data, Annual Summary, Hawaii and Pacific (annual); and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 180.-- MAJOR HURRICANES: 1950 TO 1986

[Complete to September 22, 1986]

Hurricane name	Date 1/	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage (million dollars)
			Sustained	Gusts		
Hiki	Aug. 12-16, 1950	Kauai	68	(NA)	1	0.200
Della	Sept. 1-17, 1957	French Frig. Shoals	82	109	-	Minor
Nina	Nov. 29-Dec. 7, 1957	Kauai	92	(NA)	4	1.056
Dot	Aug. 1-8, 1959	Kauai	81	103	-	5.5+
Fico	July 17-28, 1978	Hawaii	(NA)	58+	-	0.188
Iwa	Nov. 19-25, 1982	Kauai, Oahu	65	117	-	234

NA Not available.

1/ Total duration, including period outside Hawaiian waters.

Source: Samuel L. Shaw, A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979 (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, Hurricane Iwa's Economic Impact on Hawaii (January 1983); "The History of Hurricanes in Hawaii," Honolulu Star-Bulletin, July 18, 1983, p. A-5; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, letters dated December 5, 1983 and September 19, 1986.

Table 181.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature 4/ (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, *Weather in Hawaiian Waters* (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 182.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[In Fahrenheit degrees]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1983.

Table 183.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 184 .-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1982 TO 1985

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali]

Species 1/	1982	1983	1984	1985
All species:				
Species	45	46	46	51
Individual birds ..	16,649	22,279	25,809	28,803
Endemic species:				
'Apapane	68	106	96	66
Hawaiian Coot	62	135	40	23
Hawaiian Stilt	77	110	87	118
Oahu 'Amakihi	65	140	59	125
Indigenous species:				
Great Frigatebird	24	37	17	194
Red-faced Booby	425	370	624	531
Introduced species:				
Cattle Egret	331	384	477	656
Common Myna	2,790	3,080	3,611	3,586
House Sparrow	1,489	2,518	2,169	2,793
Japanese White-eye	1,121	1,706	1,235	1,628
Red-vented Bulbul	1,199	2,195	2,051	1,972
Spotted Dove	1,052	1,606	2,650	2,774
Zebra (Barred) Dove	3,442	3,840	7,624	7,299
Migratory species:				
Lesser Golden-Plover ...	1,402	1,747	1,359	1,846
Ruddy Turnstone	291	269	295	268

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

Source: Hawaii Audubon Society, The 'Elepaio (monthly).

Table 185.-- HAWAII AUDUBON SOCIETY BIRD COUNT OF THE HONOLULU AREA, BY TYPE OF SPECIES: DECEMBER 22, 1985

Type of species 1/	Number of species	Number of individuals
All species	51	28,803
Endemic	7	383
Indigenous	8	884
Introduced	31	25,374
Migratory	5	2,162

1/ For definitions, see preceding table, footnote 1.

Source: Hawaii Audubon Society, "Christmas Bird Count, 1985," *'Elepaio*, March 1986, pp. 97-99, as corrected.

Table 186.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1980 TO 1985

[As of June 30]

Year	Along City and County streets and highways 1/	In City and County parks
1980	108,202	95,700
1981	110,975	96,250
1982	113,489	96,296
1983 2/	114,320	96,504
1984	117,133	96,873
1985	118,437	96,727

1/ Excludes Federal, State, and private thoroughfares.

2/ Revised from *Data Book 1985*, table 169.

Source: City and County of Honolulu, Department of Parks and Recreation, data provided March 13, 1986.

Table 187.-- THREATENED, ENDANGERED, AND EXTINCT SPECIES OF NATIVE FAUNA AND FLORA: NOVEMBER 1986

Type of fauna or flora	Native species	Candidate 1/	Threatened 1/	Endangered 1/	Extinct 2/
Land mammals	1	-	-	1	-
Marine mammals	18	-	-	8	-
Reptiles and amphibians ..	5	-	3	2	-
Birds	87	-	1	29	23
Freshwater fish	6	1	-	-	-
Invertebrates	(3/)	150	-	41	4/ 88
Plants	2,734	787	-	19	4/ 100

1/ Categories of the Federal List of Endangered and Threatened Species, as published in the *Federal Register*. Candidate species are those being officially considered for listing as threatened or endangered.

2/ Since 1778.

3/ Not known, but nearly 10,000 native species of insects and more than 1,000 native species of land snails have been estimated.

4/ Incomplete and probably much higher.

Source: U.S. Department of the Interior, Fish and Wildlife Service records; P. Q. Tomich, *Mammals in Hawaii* (1969); Robert L. Pyle, "Checklist of Birds of Hawaii," *The 'Elepaio*, November 1983; correspondence from W. C. Gagné, Entomology Department, Bishop Museum, July 3, 1985; H. St. John, *List and Summary of the Flowering Plants in the Hawaiian Islands* (1973), p. 519; University of Hawaii Department of Geography, *Atlas of Hawaii* (1983), pp. 80 and 83.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in Section 7, agriculture in Section 19, forests in Section 20, and cane land and industrial parks in Section 22.

Out of the 4,112,000 acres in the State, 333,000 are in cropland and 974,000 in pastureland. Other major categories include forestland, with 1,473,000 acres, urban and built-up, with 126,000, and miscellaneous nonfarm, with 852,000. On Oahu, land in residential use increased from 22,600 acres in 1969 to 28,400 in 1985; during the same 16-year span, agricultural land declined from 88,900 to 77,200 acres. For the State as a whole, the Land Use Commission has zoned 163,000 acres as urban, 1,969,000 as conservation, 1,970,000 as agricultural, and 10,000 as rural.

Recent data on land ownership indicate that the Federal government owns 8.4 percent of all land, the State and counties own 29.7 percent, and private owners (chiefly large estates) have 61.9 percent. Total Federal holdings reported by the General Services Administration in 1984 came to 684,000 acres, exclusive of leased land (51,000 acres); most of the Federal land was in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 188,000 acres, divided among 4,346 lessees. Total land parcels in the State as of 1986 numbered 404,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 330,000 acres to 684,000.

Tabulations by the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, and Land Use Commission, Honolulu Department of Finance, and Honolulu Department of General Planning provided the data for this section. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 7, 8, 11, 24, and 25 of the Statistical Abstract of the United States: 1986.

Table 188.-- LAND OWNERSHIP, COVER, OR USE AND TYPES OF WATER AREAS, BY COUNTIES: 1982

[1,000 acres]

Category	State total 1/	City and County of Honolulu 1/	Other counties		
			Hawaii	Kauai	Maui 2/
Total area	4,141.3	397.2	2,582.5	403.0	758.6
Federal land	341.5	51.1	231.9	2.6	55.9
Nonfederal land	3,770.6	330.6	2,349.9	394.0	696.1
Rural land	3,609.6	268.0	2,288.7	379.0	673.9
Cropland	333.2	74.6	85.2	82.3	91.1
Pastureland	974.0	78.1	621.7	48.8	225.4
Rangeland	0.0	0.0	0.0	0.0	0.0
Forest land	1,473.5	104.3	891.7	230.7	246.8
Minor land cover/uses 3/	828.9	11.0	690.1	17.2	110.6
Urban and built-up land	125.9	56.9	42.2	9.8	17.0
Rural transportation	22.8	4.7	10.3	3.1	4.7
Small water areas	12.3	1.0	8.7	2.1	0.5
Water bodies 4/	2.2	0.5	1.3	0.3	0.1
Perennial streams 5/	10.1	0.5	7.4	1.8	0.4
Census water 6/	29.2	15.5	0.7	6.4	6.6

1/ Excludes the Northwestern Hawaiian Islands, legally part of the City and County of Honolulu.

2/ Includes Kalawao County.

3/ Includes farmsteads and ranch headquarters (State total, 3.5), other land in farms (5.6), mines, quarries, and pits (0.0), small built-up areas (2.2), and other rural lands (817.6, of which 687.7 were in Hawaii County).

4/ Includes a State total of 0.8 in bodies less than 2 acres and 1.4 in bodies of 2 to 40 acres.

5/ Includes a State total of 4.1 in streams less than 66 feet wide and 6.0 in streams 66 to 660 feet wide.

6/ Larger water bodies not included in land area totals, as measured by the Bureau of the Census (Pearl Harbor, Kaneohe Bay, etc.).

Source: U.S. Department of Agriculture, Soil Conservation Service, *1982 National Resources Inventory*, tables 1c, 2c, 7c, and 8c for Hawaii (unpublished).

Table 189.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1982 AND 1985

Subject	Dec. 1982: Oahu total	Dec. 1985		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	373,498	375,408	53,916	321,492
Single family	25,622	25,837	8,386	17,451
Multi-family	2,489	2,555	1,101	1,454
Industrial	6,929	10,000	4,229	5,771
Commercial	4,409	4,340	1,750	2,590
Hotel	223	223	111	112
Agriculture	74,703	77,240	308	76,932
Usable vacant	37,596	36,573	2,938	33,635
Other	221,527	218,642	35,093	183,549
STRUCTURES BY YEAR BUILT 1/				
All structures	141,249	146,192	63,613	82,579
Before 1930	8,516	8,199	6,258	1,941
1930 to 1939	10,104	9,744	6,191	3,553
1940 to 1949	16,555	16,137	9,208	6,929
1950 to 1959	31,085	30,764	14,847	15,917
1960 to 1969	41,725	41,619	15,775	25,844
1970 to 1979	28,295	28,296	8,226	20,070
1980 and later	3,540	11,363	3,047	8,316
Not reported	1,429	70	61	9
DWELLING UNITS BY TYPE 1/				
All dwelling units	243,461	253,661	145,171	108,490
Single family and duplex	129,967	135,102	56,625	78,477
Low density multi-family	10,779	11,669	1,015	10,654
High density multi-family	102,715	106,890	87,531	19,359

1/ Data exclude structures on military bases.

Source: City and County of Honolulu, Department of General Planning, records.

Table 190.-- LAND PARCELS, BY COUNTIES: 1985 AND 1986

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1985	398,148	208,466	47,076	120,177	22,429
1986	404,018	212,868	47,321	121,349	22,480

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 191.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: MAY 7, 1986

[Based on land use classifications used for real property assessment purposes. Data exclude public streets and highways and other areas not in parcels of record]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,042,324	373,057	751,475	2,518,860	398,932
Improved residential ...	61,326	38,808	6,206	12,141	4,171
Apartment	5,636	2,374	1,053	1,635	574
Commercial	5,193	2,714	736	1,260	483
Industrial	19,670	10,180	1,776	6,428	1,286
Agricultural	1,943,114	136,016	407,223	1,195,687	204,188
Conservation	1,946,528	148,482	327,780	1,286,240	184,026
Hotel and resort	1,745	199	785	521	240
Unimproved residential .	59,115	34,286	5,917	14,948	3,964

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes, 1983 Supplement.

2/ Because of excluded categories, these totals differ from figures for total area shown elsewhere in the Data Book.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, printouts dated May 7, 1986.

Table 192.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1986

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500	117,800	1,862,600	2,124,400	6,700
1969: August ...	4,111,500	140,163	2,009,087	1,955,875	6,375
1974: March	4,111,500	147,472	1,986,429	1,968,727	8,872
1975: February .	4,111,500	148,921	1,976,996	1,976,695	8,888
1977: January ..	4,111,500	149,263	1,976,996	1,976,327	8,914
1978: January ..	4,111,500	151,012	1,976,931	1,974,340	9,217
1979: January ..	4,111,500	151,929	1,976,106	1,974,230	9,235
1980: January ..	4,111,500	152,199	1,975,865	1,974,196	9,240
1981: January ..	4,111,500	154,319	1,975,836	1,972,104	9,241
1982: January ..	4,111,500	154,726	1,975,672	1,971,886	9,216
1983: January ..	4,112,388	156,413	1,975,473	1,971,279	9,223
1984: January ..	4,112,388	156,568	1,975,473	1,970,146	10,201
1985: January ..	4,112,388	158,620	1,969,351	1,974,236	10,181
1986: January ..	4,112,388	163,211	1,968,804	1,970,189	10,184
ISLANDS: 1986					
Hawaii	2,573,400	39,801	1,302,480	1,230,500	619
Maui	465,800	17,100	193,679	251,281	3,740
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	2,338	38,203	47,239	2,720
Molokai	165,800	2,503	49,768	111,657	1,872
Oahu	386,188	89,497	154,842	141,849	-
Kauai	353,900	11,972	198,732	141,963	1,233
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 3/	1,900	-	1,900	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

2/ For definitions, see Hawaii Revised Statutes, 1982 Supplement, Section 205-2.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied January 24, 1986.

Table 193 .-- LAND OWNERSHIP OR TENURE: 1965 TO 1986

[1,000 acres. Government kind leased to private users is included with privately owned land]

Year	All land 1/	Owned by government 2/			Privately owned land
		Federal	State	Counties	
1965	4,105.6	310.1	895.2	15.0	2,885.4
1970	4,112.3	309.2	835.3	12.1	2,955.6
1983	3,930.6	328.4	1,178.0	15.2	2,409.1
1984	3,931.4	327.6	1,197.8	15.2	2,390.8
1985	3,936.9	327.4	1,194.9	15.1	2,399.6
1986	3,934.2	329.9	1,152.6	15.2	2,436.5

1/ Because of the omission of public thoroughfares and for other reasons, totals differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

Source: Real property tax records; tabulations in The State of Hawaii Data Book for 1970 (p.38), 1971 (p.55), 1983 (p.192), 1984 (p.225), 1985 (p.190), and 1986 (following table).

Table 194.-- LAND OWNERSHIP OR TENURE, BY ISLANDS: SUMMER 1986

[In acres. Government land leased to private users is included with privately owned land]

Island	All land 1/	Land owned by government 2/			Privately owned land
		Federal	State	Counties	
State total 3/	3,934,165	329,908	1,152,595	15,210	2,436,452
Percent	100.0	8.4	29.3	0.4	61.9
Hawaii	2,495,915	221,851	786,115	1,260	1,486,689
Maui	401,508	26,872	98,820	1,304	274,511
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,984	5	122	24	88,833
Molokai	169,904	133	47,149	250	122,372
Oahu	350,103	48,798	69,086	11,673	220,546
Kauai	351,715	3,173	151,048	698	196,796
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records. Tabulation by State Department of Planning and Economic Development.

Table 195.-- LAND IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS: 1964, 1984, AND 1985

Ownership	1964	1984	1985 1/
Land area of State (acres) 2/	4,105,600	3,931,393	3,936,878
Owned by government	1,958,224	1,540,611	1,537,327
Owned privately	2,147,376	2,390,782	2,399,551
Six large owners 3/	1,121,846	941,586	941,850
Bernice P. Bishop Estate	369,700	341,138	340,690
Richard S. Smart (Parker Ranch) 4/	185,610	139,301	139,301
Castle and Cooke, Inc.	154,759	150,000	149,700
C. Brewer and Company, Ltd.	145,147	94,688	95,800
Samuel M. Damon Estate	143,842	121,659	121,659
Alexander and Baldwin, Inc.	122,788	94,800	94,700
All others	1,025,530	1,449,196	1,457,701
Percent of total land area	100.0	100.0	100.0
Owned by government	47.7	39.2	39.0
Owned privately	52.3	60.8	61.0
Six large owners	27.3	24.0	23.9
All others	25.0	36.9	37.0
Percent of privately owned land	100.0	100.0	100.0
Six large owners	52.2	39.4	39.3
All others	47.8	60.6	60.7

1/ State total, government total, and private total as of spring 1985; Bishop Estate as of June 30; other large owners as of December 31.

2/ Because of the omission of public thoroughfares and for other reasons, totals may vary from year to year and also may differ from official area estimates in other tables of this volume.

3/ Some of these figures are not exact accountings but are the landowners' best estimates.

4/ The total size of the Parker Ranch in 1985, including leased land, was 225,000 acres.

Source: Legislative Reference Bureau, *Public Land Policy in Hawaii: Major Landowners*, Report No. 3 (1967), p. 99; City and County of Honolulu, Department of Finance, Real Property Assessment Division, records; DPED survey of six landowners listed.

Table 196.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1983 TO 1985

Subject	Sept. 30, 1983	Sept. 30, 1984 1/	Sept. 30, 1985
OWNED			
Number of installations	304	(NA)	312
Land area, total (acres)	691,053.6	683,716.2	711,699.7
Urban	86,481.0	(NA)	91,112.4
Rural	604,572.6	(NA)	620,587.3
Number of buildings	15,032	(NA)	15,665
Cost, total ($1,000) 2/	1,741,836	(NA)	2,208,937
Land	46,839	(NA)	221,002
Buildings	1,032,470	(NA)	1,235,490
Structures and facilities	662,527	(NA)	752,445
Predominant usage (acres):			
Agriculture and grazing	-	(NA)	-
Forest and wildlife	255,620.2	(NA)	255,650.0
Parks and historic sites	238,854.3	(NA)	245,110.1
Power development and distribution	-	(NA)	-
Reclamation and irrigation	-	(NA)	-
Office building locations	53.7	(NA)	52.7
Military, excluding airfields	110,023.8	(NA)	113,103.0
Airfields	6,136.8	(NA)	10,689.6
Harbor and port facilities	23.6	(NA)	23.6
Flood control and navigation	1,457.5	(NA)	1,424.2
Vacant	3.0	(NA)	3.0
Institutional	358.0	(NA)	358.0
Housing	84.2	(NA)	87.4
Storage	833.1	(NA)	926.1
Industrial	1,978.7	(NA)	9,881.4
Research and development	2.5	(NA)	8.0
Other land	75,624.2	(NA)	74,382.6
LEASED			
Number of leases	294	321	289
Land area, total (acres)	51,852.3	50,705.6	9,624.5
Urban	209.5	244.0	396.9
Rural	51,642.8	50,461.6	9,227.6
Number of building locations	179	219	186
Floor area of buildings (sq. ft.)	318,446	430,196	425,863
Annual rental ($1,000)	2,398	2,781	2,795

Footnote and source on next page.

Table 196.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1983 TO 1985 -- Con.

NA Not available.

1/ Total acreage owned corrected from figures published in source. Other 1984 statistics on Federally-owned property reported in the source likewise contained serious errors but were not corrected, and hence are omitted from this table.

2/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: U.S. General Services Administration, Summary Report of Real Property Owned by the United States Throughout the World (annual) and Summary Report of Real Property Leased to the United States Throughout the World (annual). The 1984 data were corrected by GSA on May 23, 1986.

Table 197.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1985

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department]

Island	Acreage		Lessees		Applicant list	
	Total	In homestead use	Farm and ranch	Homestead	Farm and ranch	Homestead
State total ..	187,597	29,539	797	3,549	1,584	6,923
Hawaii	107,981	19,635	359	742	1,101	1,391
Maui	28,995	41	-	184	145	526
Molokai	25,401	8,598	392	289	178	190
Oahu	6,651	486	2	2,111	7	4,344
Kauai	18,569	779	44	223	153	472

Source: Hawaii State Department of Hawaiian Home Lands, 'Aina Ho'opulapula. Annual Report, FY 1985.

Table 198.-- STATE PUBLIC AND SET-ASIDE LAND INVENTORY, BY COUNTIES: JULY 1986

[In thousands of acres]

Type of document	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All types	1,413.9	67.7	979.6	155.3	211.4
Public lands	435.9	15.2	343.4	38.4	38.9
General lease 1/	228.7	5.9	189.5	23.5	9.6
Revocable permit 2/	100.6	2.4	64.0	11.9	22.3
Unencumbered lands 3/...	106.6	6.8	89.9	3.0	6.9
Lands set aside to other government agencies	767.4	42.3	519.9	96.1	109.2
Executive order	224.3	13.1	169.4	23.8	17.9
Governor's proclamation	543.2	29.2	350.4	72.3	91.3
Dept. of Hawaiian Home Lands	192.1	4.8	108.0	19.2	60.2
University of Hawaii	1.7	0.7	0.5	0.4	0.1
Hawaii Housing Authority .	1.5	1.2	0.1	0.0	0.1
Highways and roads	15.3	3.5	7.7	1.2	2.9

1/ Long-term leases. Mostly agricultural and pasture land.
2/ Month-to-month leases. Mostly agricultural and pasture land.
3/ Parcels with no documents and not in use.
Source: Hawaii State Department of Land and Natural Resources, Land Management Division, records.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, parks, pets, and the performing arts appear in this section. Additional information on recreational and resort land use is given in Section 6; on transportation, in Section 18; and on hotels and hotel workers, in Sections 12, 13, 15 and 23.

Approximately 4,884,000 visitors stayed overnight or longer in Hawaii during 1985, compared with 2,829,000 in 1975 and only 687,000 in 1965. The average number present at any given time during 1985 was 117,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1985 amounted to $4.9 billion, compared with $1.4 billion a decade earlier. The 1985 visitor total included 3.2 million from other States, 279,000 from Canada, and 855,000 from Japan. Expenditures per visitor day in 1983 averaged $85.88 for westbound visitors and $227.32 for the Japanese. Visitor-related spending in 1985 resulted in tax revenues of $600 million and generated 175,000 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven national parks and similar areas, 74 State parks, 551 county parks, 57 golf courses, 271 public tennis courts, 2,033 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational, scenic and cultural facilities reporting more than two million annual visitors each in 1985 included Waikiki Beach, the National Memorial Cemetery of the Pacific, and Wailua River State Park. Total visits to 54 museums, State monuments and similar attractions in 1985 numbered 13 million. About 403,000 Hawaii residents traveled to the Mainland in 1985. Twelve theatrical groups on Oahu reported 1,809 performances of 773 productions for the 1984-1985 season, with a combined audience of 1,087,000. During the 1985-1986 season, the Honolulu Symphony Orchestra gave 137 concerts, with a total attendance of 208,000. Professional baseball drew 85,000 fans in 1985, and during the 1985-1986 school year, attendance at UH-Manoa varsity baseball, basketball and football home games was 525,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its Annual Research Report), the State Parks Division of the Department of Land and Natural Resources, the Hawaii State Department of Planning and Economic Development, U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1986.

Table 199.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1980 TO 1985

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1980	5,380,383	5,380,383	-	3,861,059	1,519,324
1981	5,305,809	5,305,809	-	3,780,383	1,525,426
1982	5,580,240	5,580,240	-	4,078,360	1,501,880
1983	5,546,540	5,546,540	-	4,098,740	1,447,800
1984	6,107,730	6,107,730	-	4,543,890	1,563,840
1985	6,314,290	6,314,290	-	4,675,690	1,638,600

Source: Hawaii Visitors Bureau, 1985 Annual Research Report, p. 4.

Table 200.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1980 TO 1985

[Based on a 20-percent sample through 1983 and a 10-percent sample for 1984 and 1985]

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents
			Overnight or longer	In transit		
1980 1/ .	3,861,059	2,718,863	327,269	603,206	197,799	13,922
1981	3,780,383	2,611,142	363,649	556,730	230,728	18,134
1982	4,078,360	2,896,255	382,270	488,725	290,040	21,070
1983	4,098,740	3,086,995	309,120	444,180	236,725	21,720
1984	4,543,890	3,385,880	335,500	461,820	333,640	27,050
1985	4,675,690	3,386,530	322,080	537,860	403,450	25,770

1/ Returning and intended residents probably understated.
Source: Hawaii Visitors Bureau, 1985 Annual Research Report, p. 6.

Table 201.-- VISITOR ARRIVALS: 1921 TO 1964

[Visitors staying overnight or longer. Data before 1946 exclude steerage passengers and those aboard government ships and aircraft. Figures for 1946 and later years limited to passengers aboard civilian carriers. Data for 1951-1964 not adjusted for survey nonresponse, which was relatively small during those years; for adjusted estimates, including annual estimates back to 1800, see L.J. Crampon, Hawaii's Visitor Industry, Its Growth and Development (School of Travel Industry Management, University of Hawaii, 1976; unpublished), pp. 316-317]

Year	Visitors	Year	Visitors	Year	Visitors
1921	8,000	1935	19,933	1952	60,539
1922	9,676	1936	22,199	1953	80,346
1923	12,021	1937	21,987	1954	91,289
1924	12,468	1938	23,043	1955	109,798
1925	15,193	1939	24,390	1956	133,815
1926	16,762	1940	25,373	1957	168,829
1927	17,451	1941	31,846	1958	171,588
1928	19,980	1942-45 .	(1/)	1959	243,216
1929	22,190	1946	15,000	1960	296,517
1930	18,651	1947	25,000	1961	319,807
1931	15,780	1948	36,397	1962	362,145
1932	10,370	1949	34,386	1963	429,140
1933	10,111	1950	46,593	1964 2/ .	508,870
1934	16,161	1951	51,565		

1/ War years; visitor industry suspended.

2/ Figure adjusted for nonresponse was 563,925.

Source: 1921-1950 from Robert C. Schmitt, Origins of the Hawaii Visitors Bureau Research Program, 1911-1950 (University of Hawaii at Manoa, School of Travel Industry Management and Social Science Research Institute, Tourism Research Publications, Occasional Paper No. 7, 1984), pp. 17 and 19; 1951-1964 from Hawaii Visitors Bureau, 1964 Annual Program and Research Report, p. 13.

Table 202.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1985

Year	Visitors staying overnight or longer			Average number present		
	Total	West-bound 1/	Other	Total	West-bound 1/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982	4,242,925	3,278,525	964,400	105,310	94,740	10,570
1983	4,368,105	3,396,115	971,990	108,045	97,395	10,650
1984	4,855,580	3,721,380	1,134,200	118,660	106,260	12,400
1985	4,884,110	3,708,610	1,175,500	116,700	103,820	12,880

1/ Arriving from the Mainland United States or Canada. Based on a 20-percent sample through 1983 and a 10-percent sample for 1984 and 1985.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 203.-- VISITOR ARRIVALS, BY BROAD TIME PERIODS: 1800 TO 1985

[Limited to visitors staying overnight or longer; excludes ship and aircraft officers and crews, armed forces arriving aboard army and naval transports and aircraft, and passengers making brief layovers. Data prior to 1921 are rough approximations based on fragmentary information]

Period	Years	Visitor arrivals (1,000)		Cumulative arrivals	
		Total	Annual average	Number (1,000)	Percent 1/
1800-1899	100	85	0.8	85	0.1
1900-1920	21	95	4.5	180	0.3
1921-1941	21	374	17.8	554	0.9
1942-1945	4	-	-	554	0.9
1946-1959	14	1,268	90.6	1,822	2.9
1960-1969	10	7,460	746.0	9,282	14.5
1970-1979	10	28,341	2,834.1	37,623	58.9
1980-1985	6	26,220	4,370.0	63,843	100.0

1/ Percent of cumulative total through 1985.

Source: 1800-1920 estimated by the Hawaii State Department of Planning and Economic Development; 1921-1985 from present report, tables 201 and 202.

Table 204.-- VISITOR DAYS, BY DIRECTION OF TRAVEL: 1984 AND 1985

Year	Total	Westbound	Eastbound and northbound
1984	43,426,840	38,890,040	4,536,800
1985	42,596,920	37,894,920	4,702,000

Source: Hawaii Visitors Bureau, 1985 Annual Research Report, p. 5.

Table 205.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1982 TO 1985

[Approximate figures, in thousands]

Place of residence	1982	1983	1984	1985
Total	4,243.0	4,368	4,856	4,884
United States	2,600.0	2,906	3,168	3,200
Foreign	1,643.0	1,462	1,688	1,684
Asia	897.0	818	924	986
Japan	715.0	729	816	855
Other Asia	182.0	89	108	131
Canada	303.0	268	330	279
Europe	115.0	68	63	59
United Kingdom	77.3	39	36	31
West Germany	30.0	20	18	19
Other Europe	7.7	9	9	9
Oceania and South Pacific	301.0	274	334	323
Australia	220.0	167	210	204
New Zealand	75.0	67	76	78
Other South Pacific	6.0	40	48	41
Other foreign	27.0	34	37	37

Source: Hawaii Visitors Bureau, tabular release dated March 1986.

Table 206.-- WESTBOUND PARTIES, BY VISITOR STATUS: 1984 AND 1985

Year	All surveyed parties	Visitors destined -- To Hawaii	Visitors destined -- Beyond Hawaii	Returning residents	Intended residents
1984	2,292,290	1,841,830	202,400	233,640	14,420
1985	2,315,680	1,826,310	193,790	281,390	14,190

Source: Hawaii Visitors Bureau, 1985 Annual Research Report, p. 8.

Table 207.-- WESTBOUND VISITOR ARRIVALS, BY COUNTIES VISITED: 1980 TO 1985

[Covers westbound visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors. Based on a 20-percent sample through 1983 and a 10-percent sample for 1984 and 1985]

Year	State total 1/	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1980 ...	3,046,132	2,398,740	761,103	781,409	1,378,189
1981 ...	2,974,791	2,398,480	672,683	757,811	1,389,892
1982 ...	3,278,525	2,589,190	678,170	733,295	1,550,080
1983 ...	3,396,115	2,591,635	712,380	691,940	1,644,605
1984 ...	3,721,380	2,901,320	760,940	814,590	1,854,690
1985 ...	3,708,610	2,828,640	697,380	832,580	1,831,110

1/ Because many visitors visited more than one county, county data sum to totals greater than the State totals shown here.

Source follows next table.

Table 208.-- AVERAGE VISITOR CENSUS, BY COUNTIES: 1980 TO 1985

[Unlike the preceding table, this table includes eastbound and northbound visitors as well as westbound arrivals. Based on a 20-percent sample through 1983 and a 10-percent sample for 1984 and 1985]

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1980 ...	96,497	66,680	7,195	7,259	15,363
1981 ...	95,968	66,455	6,561	7,225	15,727
1982 ...	105,310	73,445	6,725	7,050	18,090
1983 ...	108,045	66,695	8,690	7,990	24,670
1984 ...	118,660	67,370	7,570	10,930	32,790
1985 ...	116,700	65,280	8,040	11,470	31,910

Source: Hawaii Visitors Bureau, release dated March 1986 and records.

Table 209.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1975 TO 1985

[Based on a 20-percent sample through 1983 and a 10-percent sample for 1984 and 1985]

Year	Residence (percent) 1/		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Pacific & Mountain States	California				
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79
1981	45.8	30.3	810	40.2	61.0	1.82
1982	44.2	29.5	789	39.1	61.5	1.82
1983	49.1	34.3	825	39.8	61.7	1.83
1984	41.9	27.2	812	40.1	61.5	1.84
1985	41.6	27.3	805	39.7	62.1	1.85

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1975	28.6	39.7	76.4	...	10.8	66.0
1976	28.3	38.7	79.0	...	10.7	65.6
1977	27.3	41.1	78.6	...	10.9	66.8
1978	26.7	42.8	76.5	...	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980	28.6	48.4	75.4	71.2	11.2	68.3
1981	28.4	47.2	77.7	70.1	11.3	67.0
1982	27.9	45.9	80.4	64.6	11.2	67.3
1983	28.9	50.4	77.8	61.7	11.0	66.9
1984	26.7	47.3	79.7	62.7	10.9	69.0
1985	25.7	46.3	80.2	58.1	10.7	69.3

Footnotes and source on next page.

Table 209.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1975 TO 1985 -- Con.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Excludes condominiums operating as hotels. Data for years before 1979 are not comparable in coverage.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data may differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

Source: Hawaii Visitors Bureau, Annual Research Report for 1975-1985 and records.

Table 210.-- VISITOR INDUSTRY PROJECTIONS: 1985 TO 2005

[Series M-F projections, recommended by DPED for State planning purposes]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)		Hotel employment (1,000)		Visitor and crew expenditures (millions of 1980 dollars)
		State total	Oahu only	State total	Oahu only	
1985 (est.) ..	4,884	117	65	28.0	16.0	3,827
1990	6,083	156	95	31.8	16.2	4,477
1995	7,052	179	102	35.0	16.8	5,190
2000	7,786	198	107	36.9	17.0	5,731
2005	8,183	208	112	37.1	17.1	6,023

Source: 1985 from Hawaii Visitors Bureau and Hawaii State Department of Labor and Industrial Relations; 1990-2005 from Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 20.

Table 211.-- DEMOGRAPHIC CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1984 AND 1985

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1984	1985	1984	1985
All visitors	3,385,880	3,386,530	335,500	322,080
Age:				
Under 10 years	106,080	93,490	22,870	21,640
10 to 19 years	243,990	238,180	27,610	26,250
20 to 29 years	581,030	597,040	62,880	60,860
30 to 39 years	673,500	694,380	68,810	66,840
40 to 49 years	596,820	605,280	54,940	52,760
50 to 59 years	513,140	489,980	41,040	37,020
60 years and over	504,320	490,810	30,070	27,050
Age not reported	167,000	177,370	27,280	29,660
Sex:				
Male	1,517,580	1,510,570	185,700	176,300
Female	1,868,300	1,875,960	149,800	145,780
Residence (census divisions):				
Pacific	1,191,150	1,167,580	18,570	14,000
Alaska	24,380	20,430	570	530
California	920,810	923,020	14,920	10,880
Oregon	79,600	75,270	840	830
Washington	166,360	148,860	2,240	1,760
Mountain	227,730	240,190	4,810	2,910
West North Central	212,640	222,680	2,970	1,990
West South Central	252,020	252,940	5,220	4,700
East North Central	412,800	408,040	6,270	5,410
East South Central	80,040	87,250	1,330	1,250
New England	106,800	124,150	2,560	2,420
Middle Atlantic	308,620	308,700	6,370	7,550
South Atlantic	253,700	282,900	9,320	9,300
U.S. territories	190	310	3,570	2,970
Canada	283,670	241,420	5,440	3,120
Other foreign	55,540	49,960	268,740	266,370
Residence not reported	980	410	330	90

Source: Hawaii Visitors Bureau, Annual Research Report for 1984 and 1985.

Table 212.-- TRIP CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1984 AND 1985

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1984	1985	1984	1985
All visitors	3,385,880	3,386,530	335,500	322,080
Purpose of trip:				
Pleasure	2,679,990	2,703,340	270,550	263,610
Business	77,680	68,080	14,420	14,360
Business and pleasure	385,910	357,590	26,970	24,710
Government and military	17,010	15,770	6,180	5,160
Visiting relatives	98,630	92,030	7,580	5,810
Attend school	2,340	1,770	480	310
Convention	91,830	122,600	2,380	2,440
Other	7,990	8,430	2,770	2,330
Purpose not reported	24,500	16,920	4,170	3,350
Traveler status:				
Organized tour group	622,540	605,130	62,010	58,520
Individual basis	2,482,360	2,560,190	255,250	250,010
Incentive	189,800	166,520	4,390	4,700
Government/military	17,280	15,770	6,200	5,160
No answer	73,900	38,920	7,650	3,690
Intended accommodations:				
Hotel	2,121,590	1,966,350	278,410	263,590
Condominium	661,470	707,040	24,630	26,480
Hotel and condominium	218,310	324,570	4,650	6,750
Friend's or relative's home	270,350	259,340	20,410	18,390
Other accommodations	110,150	126,430	6,430	5,920
Not reported	4,010	2,800	970	950

Source: Hawaii Visitors Bureau, Annual Research Report for 1984 and 1985.

Table 213.-- INTENDED LENGTH OF STAY OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1983 TO 1985

[Data limited to visitors staying overnight or longer. Based on a 20-percent sample for 1983 and 10-percent sample thereafter]

Destination and length of stay	1983	1984	1985
Visitors to Hawaii			
Total	3,086,995	3,385,880	3,386,530
2 to 6 days	306,215	280,350	261,880
7 to 12 days	1,959,285	2,216,920	2,294,890
13 to 18 days	632,290	696,160	658,750
19 to 24 days	99,810	99,760	89,140
25 to 30 days	41,625	43,730	39,480
31 to 60 days	41,815	42,140	38,100
61 to 90 days	5,000	6,080	3,680
91 to 365 days	955	740	610
Median (days)	10.3	10.3	10.2
Visitors beyond Hawaii			
Total	309,120	335,500	322,080
2 days	30,480	28,410	26,410
3 days	65,645	71,160	70,840
4 to 6 days	139,095	151,470	152,470
7 to 12 days	57,410	67,320	60,540
13 to 365 days	16,490	16,620	11,820
Median (days)	4.8	4.8	4.8

Source: Hawaii Visitors Bureau, Annual Research Report for 1983-1985.

Table 214.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1984 AND 1985

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1984	1985	1984	1985
All party heads	1,841,830	1,826,310	202,400	193,790
Occupation:				
Professional and technical ...	655,620	659,880	63,770	60,500
Business, managerial, official	455,300	458,570	62,030	60,980
Clerical, office, sales	173,720	175,890	15,650	15,160
Military service	19,430	17,740	4,640	3,870
Other employed	127,050	122,590	12,710	10,770
Military dependent	3,170	3,020	250	350
Retired	246,810	241,260	15,870	14,410
Student	79,560	76,120	16,140	16,540
Other non-employed	47,860	45,070	6,240	6,640
Not reported	33,310	26,170	5,100	4,570
Trips to Hawaii:				
First trip	908,510	913,780	99,360	90,770
Second trip	320,070	320,810	35,370	34,650
Third trip	148,920	148,660	14,030	14,450
Fourth trip and over	345,650	319,520	35,470	35,200
Not reported	118,680	123,540	18,170	18,720
Persons in party:				
1 person	362,410	336,180	72,720	68,740
2 persons	1,058,480	1,082,420	66,080	64,400
3 persons	150,680	146,840	19,360	18,000
4 persons	163,010	163,630	26,680	26,700
5 persons or more	107,250	97,240	17,560	15,950
Average size	1.84	1.85	1.66	1.66

Source: Hawaii Visitors Bureau, Annual Research Report for 1984 and 1985.

Table 215.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1980 TO 1983

Subject	1980	1981	1982	1983
Number of respondents in sample	5,180	4,984	5,810	5,736
Family income before taxes (percent)	100.0	100.0	100.0	100.0
Under $15,000	10.3	7.5	6.0	5.0
$15,000 to $24,999	19.4	16.6	16.3	14.7
$25,000 to $34,999	24.1	22.2	21.7	20.3
$35,000 to $49,999	24.0	24.8	24.4	25.2
$50,000 and over 1/	22.2	28.9	31.6	34.8
Median income (dollars)	33,400	37,300	38,700	41,000
Education: college graduates (percent)	54.5	57.6	56.0	56.6
Using travel agent (percent)	79.6	79.0	78.7	80.2
Islands visited (percent):				
Oahu only	26.6	27.2	29.2	29.0
Hawaii	30.2	24.5	22.7	23.4
Maui	53.4	54.0	52.7	53.0
Kauai	34.6	33.0	27.3	27.0
Molokai	0.6	0.6	0.5	0.2
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	35.2	37.0	37.9	39.7
Above average	54.2	53.9	53.3	53.3
Average	9.4	8.3	7.8	6.4
Below average	1.0	0.7	0.8	0.6
Quite inferior	0.1	0.2	0.1	(Z)

Z Less than 0.05 percent.

1/ Data for 1983 were reported in two classes, $50,000 to $74,999 (21.4 percent) and $75,000 and over (13.4 percent).

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 216.-- MEETINGS AND CONVENTIONS: 1980 TO 1985

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1980	546	230,891	104,045	141,544
1981	505	181,662	84,142	134,164
1982	439	167,558	78,589	123,748
1983	420	211,764	(NA)	156,396
1984	623	255,152	91,605	218,247
1985	740	247,166	104,354	219,882

NA Not available.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 217.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1984 AND 1985

Island	Number of meetings held		Estimated attendance	
	1984	1985	1984	1985
State total 1/	623	740	255,152	247,166
Hawaii:				
Hilo	7	3	989	990
Kona	109	79	22,760	17,127
Maui	217	231	62,405	49,180
Molokai	2	2	305	375
Oahu	298	398	165,575	170,624
Kauai	55	54	11,880	12,853

1/ Because some meetings took place on more than one island, detail does not add to indicated totals.

Source: Hawaii Visitors Bureau, Meetings & Conventions Department.

Table 218. -- RANKING AS A VACATION DESTINATION, BY MEASURE OF ATTRACTIVENESS: 1985

[Rank of Hawaii among 107 major vacation destinations in the U.S., based on the most recent available data]

Measure of attractiveness	Rank	Measure of attractiveness	Rank
Overall rank	3	Basic necessities	36
		Discovering our heritage	20
Blessings of nature	5	Feeding mind and spirit	24
Outdoor fun	3	Entertainment for all	55

Source: Sylvia McNair, Rand McNally Vacation Places Rated (Rand McNally and Company, 1986), p. 195.

Table 219.-- AVERAGE EXPENDITURE PER VISITOR DAY, BY ORIGIN OF VISITORS: 1931-1932 TO 1985

[Dollars]

Year	Mainlanders	Japanese	Year	Mainlanders	Japanese
1931-32 1/	17.50	(NA)	1977	54.62	146.85
1951	28.00	(NA)	1980	71.24	185.00
1960-61	32.00	(NA)	1983	85.88	227.32
1965-66 1/	37.23	(NA)	1985 (est.)	97.39	251.42
1974	46.20	123.00			

NA Not available.
1/ Oahu only.

Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), p. 31, and unpublished 1985 estimates.

Table 220.-- VISITOR EXPENDITURES, BY ORIGIN OF VISITOR AND TYPE OF EXPENDITURE: 1983

[Excludes transpacific travel costs]

Item	Aggregate expenditures (millions of dollars)			Expenditures per visitor day (dollars)	
	All visitors	Non-Japanese	Japanese 1/	Non-Japanese	Japanese 1/
All items	3,974.2	3,145.7	828.5	85.88	227.32
Food and beverage	993.7	786.4	207.3	21.47	56.88
Restaurants 2/	...	573.2	...	15.65	53.92
Nightclubs	...	51.7	...	1.41	2.96
Dinner shows	...	71.4	...	1.95	...
Groceries	...	90.1	...	2.46	...
Entertainment	220.2	186.8	33.4	5.10	9.17
Attractions	...	145.0	...	3.96	...
Other	...	41.8	...	1.14	...
Transportation	434.2	352.0	82.2	9.61	22.55
Ground transportation 3/	...	52.7	...	1.44	3.88
U-drive	...	153.1	...	4.18	...
Interisland travel	...	100.0	...	2.73	18.67
Sightseeing tours	...	46.2	...	1.26	...
Clothing	303.0	263.0	40.0	7.18	10.97
Gifts and souvenirs	506.3	268.1	238.2	7.32	65.34
Lodging	1,264.4	1,096.7	167.7	29.94	46.02
All other	202.2	142.5	59.7	3.89	16.39
Adjustment 4/	50.2	50.2	-	1.37	-

1/ Detail for sub-items not available in all cases.
2/ For Japanese visitors, refers to total expenditures for food.
3/ For Japanese visitors, refers to total transportation expenditures excluding interisland travel.
4/ Estimated amount of underreporting for listed categories.
Source: Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey (1985), pp. 4, 35, and 37.

Table 221.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1970 TO 1985

[Millions of dollars. Excludes expenditures by Hawaii residents]

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1970	595	442	153.0	53.4	45.1	54.5
1971	705	507	198.0	67.7	56.1	74.2
1972	840	609	231.0	77.0	61.9	92.1
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,146	1,569	577.0	152.9	137.9	286.9
1979	2,537	1,867	669.8	162.0	159.1	348.7
1980	2,875	2,097	777.5	187.6	189.3	400.6
1981	3,200	2,394	805.9	179.2	197.3	429.4
1982	3,700	2,748	951.8	200.9	210.6	540.3
1983	3,974	2,653	1,320.9	277.2	250.8	792.9
1984 2/ ...	4,582	2,895	1,686.6	248.9	359.4	1,078.3
1985 2/ ...	4,884	3,056	1,828.0	285.9	407.9	1,134.2

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

2/ Preliminary estimate.

Source: Hawaii Visitors Bureau, "Neighbor Island Statistics," tabular release dated March 1986.

Table 222.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1970 TO 1985

[In millions of dollars]

Year	Total	Visitors	Airline and ship crews	Overseas airlines 1/
1970	714.6	595	8.0	111.6
1971	835.8	705	8.0	122.8
1972	982.2	840	9.0	133.2
1973	1,181.6	1,020	8.0	153.6
1974	1,408.6	1,225	12.6	171.0
1975	1,559.4	1,360	8.4	191.0
1976	1,890.8	1,640	6.8	244.0
1977	2,093.8	1,845	7.8	241.0
1978	2,427.4	2,146	11.4	270.0
1979	2,947.7	2,537	11.6	399.1
1980	3,406.2	2,875	13.2	518.0
1981	3,775.0	3,200	15.0	560.0
1982	4,235.0	3,700	15.0	520.0
1983	4,483.0	3,974	14.0	495.0
1984	5,139.0	4,582	15.0	542.0
1985 2/	5,622.0	4,884	16.0	542.0

1/ Includes payroll, fuel taxes, and landing fees.
2/ Provisional.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii: 1970 to 1980, Research Report 1983-2 (April 1983), and unpublished 1981-1985 estimates based on the DPED Input-Output Model.

Table 223.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1985

Year	Visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 2/ (1,000)
1970	714.6	1,318.1	469.1	72.4	71.0
1971	835.8	1,538.6	549.5	86.1	80.8
1972	982.2	1,806.0	647.3	100.8	88.2
1973	1,181.6	2,175.4	782.2	127.4	96.3
1974	1,408.6	2,582.7	932.0	151.1	109.7
1975	1,559.4	2,815.2	1,017.5	180.7	110.9
1976	1,890.8	3,332.9	1,206.8	217.9	120.2
1977	2,093.8	3,699.7	1,341.8	229.6	125.2
1978	2,427.4	4,322.3	1,568.6	268.9	133.2
1979	2,947.7	5,145.8	1,867.0	328.9	143.3
1980	3,406.2	5,868.4	2,130.8	377.1	148.7
1981	3,775.0	6,458.6	2,352.8	417.3	152.3
1982	4,235.0	7,298.2	2,665.3	441.4	161.5
1983	4,483.0	7,720.5	2,826.4	477.4	164.7
1984	5,139.0	8,767.8	3,213.7	559.1	176.5
1985 3/ .	5,442.0	9,421.3	3,457.7	595.0	175.0

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced.

3/ Provisional.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii: 1970 to 1980, Research Report 1983-2 (April 1983), and unpublished 1981-1985 estimates based on the DPED Input-Output Model.

Table 224.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, BY INDUSTRY: 1985

Year and industry (million dollars)	Direct visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Total household income (million dollars)	Jobs (1,000)	
				Total 3/	Direct only
All industries	5,442.0	9,421.3	3,457.7	175.0	96.5
Agriculture	42.4	93.7	41.5	0.6	0.3
Textile and apparel mfg.	45.4	80.4	27.7	2.0	1.2
Other manufacturing	143.2	280.6	74.5	4.7	1.5
Air transportation	485.8	854.3	276.7	13.7	6.1
Other transportation	209.0	430.5	165.1	7.0	3.5
Wholesale trade 4/	126.8	267.5	115.4	5.2	2.5
Eating and drinking places ...	1,081.0	2,108.0	637.8	46.8	27.2
Other retail trade 4/	455.8	980.0	455.8	28.3	18.5
Hotel services and real estate	1,647.2	3,673.3	1,400.1	51.9	26.9
Other services	317.0	653.0	263.1	14.8	8.8
Imports	888.4	-	-	-	-

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

4/ Expenditure figure refers to mark-up earned, not total sales revenue.

Source: Hawaii State Department of Planning and Economic Development, unpublished estimates based on the DPED Input-Output Model.

Table 225.-- VISITOR INDUSTRY PRICE INDEXES: 1961 TO 1986

[1967 = 100]

Year	Vacation price index 1/	Hotel price index 1/	Airfare index 2/	Honolulu consumer price index 3/		
				Eating out 4/	Apparel, upkeep	All items
1961	88.5	91.0	104.6	(NA)	(NA)	88.6
1962	90.0	91.6	100.0	(NA)	(NA)	90.6
1963	92.0	94.1	100.0	(NA)	(NA)	92.6
1964	92.6	92.3	100.0	92.0	95.6	92.9
1965	94.1	92.3	100.0	94.1	96.5	94.6
1966	96.1	91.8	100.0	96.8	98.1	97.3
1967	100.0	100.0	100.0	100.0	100.0	100.0
1968	103.3	99.2	103.4	104.1	103.8	103.8
1969	108.9	102.4	119.3	111.6	109.4	108.5
1970	116.0	121.2	143.9	121.2	115.1	114.2
1971	119.1	117.6	143.9	126.9	117.6	118.9
1972	120.6	118.9	143.9	130.8	120.5	122.8
1973	124.7	119.9	148.8	139.0	124.1	128.3
1974	136.1	126.8	156.4	156.6	133.3	141.9
1975	150.1	141.1	162.0	178.7	141.2	155.0
1976	158.5	155.4	174.2	193.1	146.7	162.8
1977	169.2	169.6	174.2	204.5	152.2	171.0
1978	183.2	187.2	204.5	218.9	161.3	184.1
1979	201.3	211.5	219.7	236.1	171.7	204.6
1980	224.6	237.2	295.5	254.4	183.9	228.5
1981	(NA)	(NA)	386.4	277.8	193.4	252.4
1982	(NA)	(NA)	348.5	299.7	201.5	267.6
1983	(NA)	(NA)	378.4	314.1	207.7	273.5
1984	(NA)	(NA)	378.4	327.9	205.1	284.8
1985	(NA)	(NA)	340.5	340.9	203.9	294.1
1986	(NA)	(NA)	340.5	346.9	197.4	299.2

NA Not available.

1/ Annual averages. From Edwin Fujii, Mohammed Khaled, and James Mak, The Incidence and Exportability of Hotel Occupancy and Other Tourist Taxes in Hawaii (consultant report, July 1984), p. 47.

2/ July 1 data for one-way fares, including taxes, by Hawaiian Airlines jet aircraft (when available) between Honolulu and Kahului or Lihue. From DPED Statistical Report 103, table 2; Hawaii Visitors Bureau, 1983 Visitor Expenditure Survey, table 18; and present report, table 535.

3/ Annual averages, except 1986 (June). Beginning 1978, refers to CPI-U. From U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and records, and DPED Statistical Report 187, table 1.

4/ Food away from home.

Source: See above footnotes.

Table 226.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1980 TO 1985

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1980	3,140,200	2,069,728	799,978	270,494	3,118,998
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983	4,484,734	3,216,000	966,146	302,588	4,485,156
1984	4,384,978	2,706,732	1,108,374	569,872	4,384,264
1985	5,345,724	4,009,391	1,125,914	210,419	5,347,648

1/ Net after refunds (if any) to the State.

2/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: Peat, Marwick, Mitchell & Co., Hawaii Visitors Bureau, Financial Statements and Schedules (annual).

Table 227.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1981 TO 1984

Passport category and first area destination	1981	1982	1983 1/	1984
Issued by Honolulu Passport Agency 2/ ..	34,191	41,906	41,446	52,250
Issued to Hawaii residents, total 3/ ...	31,700	38,690	30,040	(NA)
Europe	10,970	14,860	15,720	(NA)
Middle East	510	310	440	(NA)
Far East	10,980	13,830	7,250	(NA)
North, Central, and South America	940	960	920	(NA)
Africa	100	70	80	(NA)
Australia and Oceania	8,200	8,660	5,580	(NA)
World tour	-	-	50	(NA)

NA Not available.

1/ Revised from Data Book 1984, table 231.

2/ Includes passports issued to persons not residing in Hawaii.

3/ Includes passports issued by offices not in Hawaii.

Source: U.S. Department of State, Honolulu Passport Office, information supplied September 23, 1985.

Table 228.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks]

Characteristics	Number
Total round-trips by adults for vacations outside Hawaii, 1979	355,000
Percent of all adults --	
Vacationing outside Hawaii in 1979	35.2
Last vacation outside Hawaii was before 1979	39.8
Never vacationed outside Hawaii	25.0
Percent of all adults who vacationed in 1979 in -- 1/	
California	21.2
Nevada	12.0
Alaska	0.4
Pacific Northwest	3.8
Southwest States	1.0
Rocky Mountain States	2.0
Central States	3.8
Southern States	3.2
Eastern States	4.4
Canada	2.0
Mexico	0.8
Caribbean	0.4
South America	0.0
Pacific Islands	0.2
Australia-New Zealand	0.6
Japan	1.6
Philippines	1.4
China, Korea	0.8
Southeast Asia	0.6
Indian subcontinent	0.2
Middle East	0.4
Africa	0.0
Europe	1.4
Length of vacation trips in 1979 (nights): 2/	
Median	12.8
Mean	17.2

1/ Respondents could name more than one destination per trip.

2/ Includes time spent for nonvacation purposes.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980).

Table 229.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1980 TO 1985

Year	Number returning	Oahu residents 1/ (percent)	Median age (years)	Males per 100 females	Persons per party
1980	197,799	85.2	37.9	100.8	1.42
1981	230,728	83.8	37.3	101.6	1.44
1982	290,040	84.8	36.7	100.[illegible]	1.45
1983	236,725	84.7	36.5	102.2	1.45
1984	333,640	82.8	38.2	100.4	1.43
1985	403,450	82.1	39.2	100.5	1.43

Year	Party heads with high-status occupations 2/ as percent of--		Days absent 3/		Average number absent 3/
	All party heads	Employed civilian party heads	Median	Mean	
1980	54.8	78.0	11.6	17.0	9,200
1981	54.5	78.7	13.3	17.3	10,900
1982	52.6	78.6	13.3	18.1	14,400
1983	51.3	78.4	12.8	17.2	11,200
1984	53.6	80.1	12.5	16.1	14,700
1985	56.2	82.0	12.2	15.3	16,900

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Party heads reporting professional, technical, business, managerial, and official occupations.

3/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1985 (Statistical Report 188, June 23, 1986), table 2.

Table 230.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1983 TO 1985

[Calendar year data unless otherwise specified]

Island and cultural attraction	1983	1984	1985
State total	12,445,854	12,545,247	12,965,607
Oahu	10,162,420	11,106,734	11,083,363
Bernice P. Bishop Museum 1/	175,961	224,482	257,760
Contemporary Arts Center	27,000	27,000	27,000
Damien Museum and Archives 2/	14,656	3,508	-
Dole Cannery tours 3/	115,015	127,229	138,860
Foster Botanic Garden 4/	112,309	64,077	61,676
Fred Ohrt Museum	4,102	4,271	3,880
Hawaii Maritime Center 5/	6,738	8,000	45,000
Honolulu Academy of Arts 6/	218,215	235,615	274,950
Hoomaluhia Park 7/	78,082	59,622	42,696
Iolani Palace State Monument 8/	61,000	65,000	71,000
Kamehameha V Post Office 8/	6,000	3,000	-
Kodak Hula Show	488,000	538,000	460,000
Mission Houses Museum 9/	29,626	18,504	14,100
Mormon Temple Grounds (Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center)	287,585	319,113	240,065
National Memorial Cemetery of the Pacific	3,989,152	4,394,458	4,453,063
Pacific Submarine Museum	69,477	70,000	50,000
Paradise Park	305,000	315,592	272,592
Polynesian Cultural Center	900,000	1,030,000	1,029,000
Puu o Mahuka Heiau State Monument 8/	14,000	21,000	11,000
Queen Emma Summer Palace	18,786	18,152	16,732
Royal Mausoleum State Monument 8/	79,000	79,000	74,000
Sea Life Park	566,320	617,500	655,000
Tennent Art Foundation Gallery	3,000	2,500	3,000
Tropic Lightning Museum 10/	9,210	6,000	8,700
Ulu Po Heiau State Monument 8/	3,000	4,000	6,000
U.S. Army Museum, Ft. DeRussy	98,268	118,908	143,390
U.S.S. Arizona Memorial	1,530,990	1,715,047	1,629,660
Visiting either Memorial or Visitor Center	1,153,286	1,376,816	1,336,992
Aboard non-landing tour boats	377,704	338,231	292,668
U.S.S. Bowfin WWII Submarine Exhibit	192,696	224,684	254,053
Wahiawa Botanic Garden 11/	17,148	20,225	18,711
Waikiki Aquarium 12/	248,261	295,760	322,796
Waimea Falls Park	493,823	476,487	498,679

Continued on next page.

Table 230.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1983 TO 1985 -- Con.

Island and cultural attraction	1983	1984	1985
Hawaii	1,622,674	563,305	561,328
Hawaii Tropical Botanical Gardens 13/	-	4,000	20,000
Greenwell Store Museum 14/	-	400	2,500
Hulihee Palace	23,411	23,501	21,469
Kamuela Museum	18,033	18,000	16,000
Kealakekua Bay State Historical Park 15/	-	-	26,000
Kilauea Visitor Center 16/	1,500,000	433,144	381,346
Lapakahi State Historical Park 8/	65,000	68,000	73,000
Lyman House Memorial Museum	16,230	16,260	21,013
Maui	137,330	329,702	805,175
Halekii-Pihana Heiaus State Monument 8/	44,000	53,000	57,000
Kula Botanical Gardens	(NA)	(NA)	19,500
Lahaina Restoration Foundation	85,295	119,327	162,988
Baldwin Home Museum	33,440	41,333	43,414
Brig *Carthaginian*	42,837	68,203	73,201
Hale Pa'i	9,018	7,691	8,461
Wo Hing Temple 17/	-	2,100	37,912
Maui Historical Society Museum 18/	8,035	7,711	15,687
Maui Plantation 19/	-	149,664	550,000
Kauai	514,844	535,502	503,729
Grove Farm Homestead	4,225	4,420	4,664
Hanalei Museum 20/	-	6,000	6,500
Kauai Museum 21/	17,236	20,102	20,248
Kokee Natural History Museum	61,241	72,299	83,424
Olu Pua Gardens	(NA)	(NA)	4,800
Pacific Tropical Botanical Garden	2,000	2,496	5,229
Russian Fort Elizabeth State Historical Park 22/	426,000	425,000	375,000
Waioli Mission House 23/	4,142	5,185	3,864
Molokai	8,586	10,004	12,012
Kalaupapa Settlement	8,586	10,004	12,012

NA Not available.

1/ Years ended June 30. Excludes *Falls of Clyde* Maritime Museum, operated by the Bishop Museum until November 1, 1983 but listed separately in this table.

2/ Closed part of 1984 and most of 1985.

3/ 1984 and 1985 figures refer to year ended June 30.

4/ Admission fee charged beginning January 2, 1984.

5/ Closed November 1982 to November 1983. Includes *Falls of Clyde* and Aloha Tower Maritime Museum.

6/ Excludes Academy Theatre (52,458 in 1984 and 81,617 in 1985).

7/ The revised 1982 attendance was 75,038.

Continued on next page.

Table 230.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1983 TO 1985 -- Con.

8/ Years ended June 30.

9/ Years ended December 31, 1983 and September 30, 1984 and 1985.

10/ Closed three months in 1984.

11/ Closed November 23, 1982 to May 24, 1983.

12/ Includes both adult (231,229 in 1985) and child (91,567) attendance.

13/ Opened August 1984.

14/ Opened September 10, 1984.

15/ Beginning October 1984.

16/ Annual data may not be comparable.

17/ New site opened December 17, 1984, after one-year restoration.

18/ Formerly Hale Hoikeike. 1983 figure refers to year ended February 29, 1984.

19/ Opened (as Hawaii Tropical Plantation) August 4, 1984.

20/ Closed November 23, 1982 to June 1984

21/ Years ended September 30, 1983 and 1984, and December 31, 1985.

22/ Years ended June 30. Attendance estimates reflect heavy use of restrooms by tour bus passengers.

23/ Open only three times weekly in 1985.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1985 (Statistical Memorandum 86-2, March 18, 1986), as revised September 5, 1986.

Table 231.-- ATTENDANCE AT MUSEUMS AND OTHER ATTRACTIONS: 1975 TO 1985

Year	Number of attractions	Attendance (1,000)	Year	Number of attractions	Attendance (1,000)
1975 ..	30	6,261	1981 ..	45	10,237
1976 ..	32	7,480	1982 ..	48	12,702
1977 ..	33	8,794	1983 ..	48	12,446
1978 ..	32	9,504	1984 ..	53	12,545
1979 ..	37	10,539	1985 ..	54	12,966
1980 ..	40	10,314			

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1985 (Statistical Memorandum 86-2, March 18, 1986), as revised September 5, 1986.

Table 232.-- HONOLULU SYMPHONY ORCHESTRA: 1975-1976 TO 1985-1986

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1975-1976	80	128	224,000	1,654,510
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082
1981-1982	80	109	168,900	2,627,293
1982-1983	80	142	204,193	2,817,196
1983-1984	80	133	194,600	2,562,500
1984-1985	80	120	167,500	2,966,700
1985-1986	80	137	208,370	3,053,257

Source: Hawaii State Department of Planning and Economic Development, *The Performing Arts, 1984-1985* (Statistical Memorandum 86-1, February 11, 1986), table 3, and Honolulu Symphony Society, records.

Table 233.-- PERFORMING ARTS STATISTICAL SUMMARY, FOR OAHU: 1977-1978 TO 1984-1985 SEASONS

Season	Number of groups reporting	Productions	Performances	Attendance
1977-1978	12	254	1,513	850,802
1978-1979	12	219	1,024	766,018
1979-1980	12	183	1,178	723,581
1980-1981	13	254	1,128	830,585
1981-1982	12	500	1,300	804,647
1982-1983	13	502	1,376	936,821
1983-1984	13	695	1,734	1,060,367
1984-1985	12	773	1,809	1,086,930

Source: Hawaii State Department of Planning and Economic Development, *The Performing Arts, 1984-1985* (Statistical Memorandum 86-1, February 11, 1986), table 1.

Table 234.-- PERFORMING ARTS, FOR OAHU: 1984-1985 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	773	1,809	1,086,930
Brigham Young University - Hawaii Campus	13	21	6,950
Chaminade University of Honolulu	2	10	1,500
Hawaii Loa College	4	12	900
Hawaii Performing Arts Company, total	7	147	14,730
Regular and summer productions	6	135	13,593
Studio Series	1	12	1,137
Honolulu Community Theatre, total	11	116	40,474
Mainstage productions	7	102	35,524
Studio Theatre series	2	5	950
Honolulu Sym. - Bach Handel Festival	1	5	2,100
Finis Jhung Chamber Ballet	1	4	1,900
Honolulu Department of Auditoriums, total	134	267	531,972
Ballets	4	8	10,490
Concerts	90	143	282,167
Operas	3	10	19,373
Rock shows	13	15	91,930
Other dramatic and musical productions	24	91	128,012
Honolulu Theatre for Youth	12	378	152,593
Leeward Community College, total	52	128	53,482
Drama	6	67	30,401
Music	15	17	7,641
Dance	5	10	3,411
Opera	1	3	1,524
Miscellaneous	25	31	10,505
U.S. Army Support Command, total	519	620	251,016
Plays, musicals and workshops	5	65	4,781
Showmobile activities	23	23	86,430
Commercial entertainment activities	9	9	37,371
DOD/USO touring shows	8	26	10,275
Dinner theater musical productions	3	10	1,500
Richardson Performing Arts Center	16	32	24,250
Soldier bands and jam sessions	450	450	48,392
Special events	5	5	38,017
University of Hawaii at Manoa, total	11	66	29,603
On campus	11	66	29,603
Off campus	-	-	-
Windward Community College	4	16	1,250
Windward Theater Guild	4	28	2,460

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1984-1985 (Statistical Memorandum 86-1, February 11, 1986), table 2.

Table 235.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1985

Recreation area/facility	State total	Kauai	Honolulu	Maui	Hawaii
Recreation area:					
Total acreage	1,572,891	137,192	59,400	249,656	1,126,643
Unimproved acreage	1,563,753	136,274	53,527	248,898	1,125,055
Improved acreage	9,138	918	5,873	758	1,588
Passive	3,334	275	2,057	254	747
Active	5,033	611	3,259	437	726
Service	772	32	558	67	115
Aquatic:					
Boat launch lanes	79	10	37	10	22
Boat moorages	2,750	95	2,053	254	348
Swimming pools	77	6	58	6	7
Beach acreage	490	101	306	49	34
Beach length (in miles) .	56	11	34	6	5
Wild shoreline (in miles)	39	1	1	2	35
Nonstructured/land based:					
Camping sites	2,065	339	499	403	824
Public hunting (in acres)	1,282,458	102,517	26,032	192,804	961,105
Court, courses fields, and playgrounds:					
Golf courses (holes)	1,038	144	441	219	234
Tennis courts	638	100	360	75	103
Sport fields	453	51	324	46	32
Sport courts	683	38	551	43	51
Trails:					
Hiking/equestrian (in miles)	1,112	206	78	167	661
Bikeways (in miles)	66	1	38	27	0

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan Technical Reference Document and State Comprehensive Outdoor Recreation Plan (SCORP) (December 1985), p. 27.

Table 236.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity]

Activity	Activity occasions 1/		Percentage participation	
	State total	Oahu only	Residents	Visitors
All activities	986,430	737,417	--	--
Walking	240,434	191,201	23	31
Jogging	73,068	62,181	9	2
Hiking	15,709	10,413	2	2
Camping	20,809	16,130	3	1
Group camping	3,804	913	0	0
Picnicking	84,716	58,447	10	3
Hunting	1,502	234	0	0
Golf	15,681	11,714	2	2
Swim or sunbathing	171,525	123,616	16	26
Diving	20,875	13,483	2	3
Surfing	22,608	15,587	2	3
Boating	18,563	13,547	3	3
Canoe paddling	3,233	1,786	0	0
Fishing	24,875	17,322	3	1
Field games	32,404	27,065	4	0
Court games	19,070	15,891	2	0
Playground equipment	14,928	11,175	2	0
Tennis	18,106	12,749	2	2
Outdoor events	19,071	15,562	2	3
Bicycling	74,909	54,403	9	0
Motorcycling	8,722	6,719	1	1
Other activities	22,606	18,008	3	0
Sightseeing	59,212	39,271	3	18

1/ An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Functional Plan, Technical Reference Document and State Comprehensive Outdoor Recreation Plan (SCORP), (December 1985), pp. 32-34.

Table 237.-- NATIONAL PARKS: 1975 TO 1985

Year and area	Acreage, Dec. 31 1/			Visits 2/
	Total	Federal	Non-federal	
1975	235,274	235,208	66	2,559,429
1976	235,274	235,208	66	2,895,840
1977	235,274	235,208	66	2,932,555
1978	236,574	235,208	1,366	3,572,504
1979	236,574	235,208	1,366	3,384,343
1980	247,488	235,243	12,245	3,479,797
1981	247,488	235,243	12,245	4,225,217
1982	247,488	235,243	12,245	4,950,621
1983	247,349	235,243	12,106	5,252,385
1984	247,349	235,243	12,106	5,429,289
1985	247,349	235,243	12,106	4,029,929
AREAS: 1985				
Hawaii Volcanoes National Park	207,643	207,643	-	1,031,893
Haleakala National Park	27,350	27,350	-	1,218,186
Puuhonua o Honaunau National Historical Park	181	181	-	394,844
Kaloko-Honokohau National Historical Park	1,161	-	1,161	(3/)
Puukohola Heiau National Historic Site	100	34	66	48,014
U.S.S. Arizona Memorial 4/	12	12	-	1,336,992
Kalaupapa National Historical Park	10,902	23	10,879	(3/)

1/ Data exclude the Olaa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of Hawaii Volcanoes National Park. All acreage estimates were revised in January 1984.

2/ Decline in 1985 reflects use of new benchmark data for Hawaii Volcanoes National Park estimates. At the end of 1985, the NPS resurveyed vehicle visitation patterns at Hawaii Volcanoes. As a result, it was verified that what had in the past been a three to one ratio in the number of buses as compared to cars had reversed in favor of cars. Consequently, the multiplier factor used to count vehicles was readjusted downward from 5.7/vehicle to 2.39/vehicle for recreation visits and from 2.18/vehicle to 1.92/vehicle for non-recreation visits to reflect more accurate visitation figures for the park.

3/ Not yet open to the public.

4/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 238.-- STATE PARKS AND HISTORIC SITES: 1976 TO 1986

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1976	55	18,577	606.6	14,305
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
1981	71	20,836	937.8	15,611
1982	72	20,885	937.8	18,111
1983	74	20,564	980.1	17,246
1984	74	24,751	979.1	19,406
1985	74	24,799	882.1	19,908
1986	74	24,865	882.1	19,680
ISLANDS: 1985				
Hawaii	18	1,298.3	280.4	4,495
Maui	12	318.2	56.3	3,824
Molokai	1	233.7	10.0	184
Oahu	32	9,164.6	392.5	5,427
Kauai	11	13,783.7	142.9	5,978
ISLANDS: 1986				
Hawaii	18	1,364.8	280.4	4,894
Maui	12	318.2	56.3	3,771
Molokai	1	233.7	10.0	188
Oahu	32	9,164.6	392.5	4,491
Kauai	11	13,783.7	142.9	6,336

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, records.

Table 239.-- MAJOR STATE PARKS: 1985 AND 1986

[Parks having at least 750,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1985			
Wailua River State Park 1/	1,125.9	50.4	3,030
Hapuna Beach State Recreation Area	61.1	20.0	1,251
Nuuanu Pali State Wayside	2.5	2.5	1,196
Sand Island State Recreation Area	140.0	83.0	2/ 1,028
Waimea Canyon State Park	1,866.4	10.0	930
Kokee State Park	4,345.0	55.0	853
Iao Valley State Monument	6.2	5.9	847
Na Pali Coast State Park	6,175.0	4.0	53
Kahana Valley State Park	5,220.3	20.0	41
Sacred Falls State Park	1,374.2	10.0	34
1986			
Wailua River State Park 1/	1,125.9	50.4	3,114
Hapuna Beach State Recreation Area	61.1	20.0	1,270
Nuuanu Pali State Wayside	2.5	2.5	1,156
Old Kona Airport State Recreation Area	117.8	20.4	1,094
Waimea Canyon State Park	1,866.4	10.0	978
Kokee State Park	4,345.0	55.0	947
Iao Valley State Monument	6.2	5.9	800
Na Pali Coast State Park	6,175.0	4.0	51
Kahana Valley State Park	5,220.3	20.0	28
Sacred Falls State Park	1,374.2	10.0	25

1/ Seven separate areas in both 1985 and 1986.
2/ Revised from Data Book 1985, table 219.
Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation, and Historic Sites, records.

Table 240.-- NATIONAL AND STATE HISTORIC SITES, BY ISLANDS: 1985

Island	Total sites 1/	Listed Hawaii Register only	Listed and recommended for National Register 2/	Listed National Register only	Listed both Hawaii and National Register	Eligible for Nat'l Register 3/
State total	376	90	40	92	119	37
Hawaii	87	36	2	18	23	9
Kauai	45	12	4	5	19	5
Kahoolawe .	1	-	-	1	-	-
Lanai	1	-	-	1	-	-
Maui	34	19	1	5	8	1
Molokai ...	55	14	14	2	24	2
Oahu	153	9	19	60	45	20

1/ Total sites listed in the source, as adjusted for appearance of some sites on more than one list.

2/ Sites placed on the Hawaii Register of Historic Places by the Historic Places Review Board but not yet approved by either the State Historical Preservation Officer or the National Historical Places Review Board.

3/ Sites declared eligible for National Register listing by the National Board.

Source: Hawaii State Department of Land and Natural Resources, State Parks, Outdoor Recreation, and Historic Sites Division, Hawaii Historic Places Review Board, Hawai'i/National Registers of Historic Places (February 1985).

Table 241.-- COUNTY PARKS, BY ISLANDS: 1982 TO 1985

[As of December 31]

Subject	1982	1983	1984	1985
Number, total 1/ ..	548	547	551	551
Hawaii	134	135	135	134
Maui	82	79	80	80
Lanai	2	3	3	3
Molokai	10	10	11	11
Oahu 1/	264	264	266	266
Kauai	56	56	56	57
Acreage, total 1/ .	8,177	8,238	8,248	8,222
Hawaii	1,445	1,460	1,463	1,434
Maui	921	899	899	899
Lanai	5	7	7	7
Molokai	51	51	54	54
Oahu 1/	5,235	5,238	5,242	5,242
Kauai	520	583	583	586

1/ Data for 1982-1984 revised from Data Book 1985, table 221. The earlier figures included traffic islands, medial strips, nurseries, remnants, etc., on Oahu.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from data provided by County parks and recreation departments.

Table 242.-- ZOOS: 1983 TO 1985

Subject and zoo	1983	1984	1985
Species: 1/			
Coco Palms (Kauai)	6	6	6
Honolulu Zoo 2/	315	305	278
Maui Zoological & Botanical Gardens	45	42	40
Molokai Ranch Wildlife Park	11	11	9
Panaewa Rainforest Zoo (Hilo)	53	52	53
Individuals: 1/			
Coco Palms (Kauai)	65	75	68
Honolulu Zoo 2/	1,119	1,120	1,071
Maui Zoological & Botanical Gardens	176	163	152
Molokai Ranch Wildlife Park	350	463	504
Panaewa Rainforest Zoo (Hilo)	153	173	182
Attendance:			
Coco Palms (Kauai)	3,742	3,331	5,423
Honolulu Zoo 3/	1,128,879	703,535	782,866
Maui Zoological & Botanical Gardens	86,200	87,000	80,000
Molokai Ranch Wildlife Park	3,000	3,000	4,500
Panaewa Rainforest Zoo (Hilo)	37,007	36,040	39,949

1/ Animal and bird inventory, December 31.

2/ 1984 revised from Data Book 1985, table 224.

3/ 1983 and 1984 revised from Data Book 1985, table 224. Decline after 1983 reflects entry fee instituted as of January 2, 1984.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel, Molokai Ranch Wildlife Park, and the parks and recreation departments of the City and County of Honolulu and counties of Hawaii and Maui.

Table 243.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1985 AND 1986

[Years ended June 30]

Subject	1985	1986
Approximate attendance, total 1/ (1,000) .	12,530	14,801
Ala Moana	1,708	1,659
Waikiki	5,512	7,503
Hanauma Bay	1,579	2,038
Kailua	541	391
Waimea Bay	602	510
Rescues	624	1,273
First aid: Minor	18,122	28,496
Major	624	823
Surfing accidents	191	341
Resuscitation	31	26
Ambulance assistance	97	177
Police assistance	72	86
Helicopter assistance	16	20
Lost children	139	135
Near drownings	(NA)	10
Drownings	6	11

NA Not available.

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day. Data shown separately for beach areas over 500,000 in either 1985 or 1986.

Source: City and County of Honolulu, Department of Parks and Recreation, data provided August 22, 1986.

Table 244.-- COUNTY TENNIS FACILITIES: 1982 TO 1985

[As of December 31]

Island	Locations				Courts			
	1982	1983	1984	1985	1982	1983	1984	1985
State total ...	81	86	88	89	249	259	265	271
Hawaii	21	21	21	21	88	45	45	45
Maui	10	12	12	12	32	32	32	34
Lanai	1	1	1	1	2	2	2	2
Molokai	1	1	1	1	2	2	2	2
Oahu	39	41	43	44	146	154	160	164
Kauai	9	10	10	10	22	24	24	24

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 245.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1979 TO 1985

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1979	4	63	351,204	7,062
1980	4	63	424,426	6,438
1981	4	63	461,543	5,989
1982	4	63	447,782	6,412
1983	4	63	494,610	7,462
1984	4	63	484,691	8,062
1985	4	63	484,594	6,937

1/ By the City and County of Honolulu. 1979 figure revised.

Source: City and County of Honolulu, Department of Parks and Recreation, data provided March 13, 1986.

Table 246.-- GOLF COURSES, BY ISLANDS: 1984

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii	11	2	9	-	180
Public 1/	4	2	2	-	54
Municipal	1	-	1	-	18
Resort	6	-	6	-	108
Maui	10	2	8	-	162
Private	1	1	-	-	9
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	7	-	7	-	126
Lanai	1	1	-	-	9
Public 1/	1	1	-	-	9
Molokai	2	1	1	-	27
Public 1/	1	1	-	-	9
Resort	1	-	1	-	18
Oahu	28	5	23	-	459
Private	4	-	4	-	72
Public 1/	8	1	7	-	135
Municipal	4	1	3	-	63
Military	9	3	6	-	135
Resort	3	-	3	-	54
Kauai	5	1	3	1	90
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

Source: Bill Gee, 1984 Hawaiian Golf Almanac (Hawaii Junior Golf Association), pp. 3 and 8.

Table 247 .-- HAWAIIAN OPEN SCORES AND PURSES: 1965 TO 1986

[The Hawaiian Open, originally called the Hawaiian Open Invitational, was first held November 3-9, 1965, at the Waialae Country Club golf course, and (except in 1970) has been played annually at that course since that time. Distance is 6,914 yards; par is 72]

Year 1/	Winning score		Purse (dollars)	
	Total	Below par	Total	Winner
1965	*281	7	50,000	9,000
1966	271	17	67,600	8,500
1967	*284	4	100,000	20,000
1968	272	16	125,000	25,000
1969	274	14	125,000	25,000
1970	No tournament			
1971	273	15	200,000	40,000
1972	*274	14	200,000	40,000
1973	273	15	200,000	40,000
1974	271	17	220,000	44,000
1975	274	14	220,000	44,000
1976	270	18	230,000	46,000
1977	273	15	240,000	48,000
1978	*274	14	250,000	50,000
1979	267	21	300,000	54,000
1980	266	22	325,000	58,500
1981	265	23	325,000	58,500
1982	277	11	325,000	58,500
1983	268	20	325,000	58,000
1984	*271	17	500,000	90,000
1985	267	21	500,000	90,000
1986	272	16	500,000	90,000

* Sudden-death playoff.

1/ Initially held in November but since 1971 in February.

Source: Honolulu Advertiser, February 17, 1986, p. C-1; Sunday Star-Bulletin and Advertiser, February 9, 1986, p. J-6, and February 16, 1986, p. F-6.

Table 248.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: FEBRUARY 1986

Island	Public hunting areas		National Wildlife Refuges 1/		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	61	1,026.2	6	256.0	11	80.6
Hawaii	26	727.9	-	-	4	79.5
Maui	7	102.5	-	-	2	0.1
Lanai	1	35.6	-	-	-	-
Molokai	3	27.5	1	0.0	-	-
Oahu	13	26.0	2	0.2	5	0.7
Kauai	11	106.7	3	1.2	-	-
Niihau	-	-	-	-	-	-
Other islands	-	-	1	254.6	(2/)	0.3

1/ U.S. Fish and Wildlife Service.

2/ The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, information supplied February 5, 1986.

Table 249.-- FISHING AND HUNTING LICENSES ISSUED: 1981 TO 1986

[Years ended June 30]

Type of license	1981	1982	1983	1984	1985	1986
Freshwater game fishing ..	8,102	8,526	8,720	9,866	7,131	8,200
Hunting	12,284	11,935	11,959	12,107	12,599	12,776

Source: Hawaii State Department of Land and Natural Resources, Division of Conservation and Resources Enforcement, records.

Table 250. -- FISHING AND HUNTING CHARACTERISTICS OF PERSONS 16 YEARS AND OVER, BY RESIDENT STATUS: 1980

Activity and characteristic	Resident in-State	Nonresident in-State	Resident out-of-State
FISHING			
Participants	153,200	90,700	15,100
Freshwater	16,400	13,100	8,600
Saltwater	149,400	90,000	7,500
Deep sea	25,900	37,400	500
Surf and shore	132,300	46,300	3,100
Sounds, bays, tidal inlets, streams	4,400	6,900	5,100
Participants as percent of population	21.7	(X)	2.1
Days of participation	3,017,900	257,700	242,700
Per fisherman	19.7	2.8	16.1
HUNTING			
Participants	17,300	11,100	3,300
Deer	2,400	-	900
Wild turkey	1,800	-	400
Feral goat	9,100	5,700	-
Feral sheep	3,900	-	-
Feral pigs	10,600	4,900	-
Quail	3,500	9,900	500
Pheasant	7,500	9,900	400
Partridge	2,700	-	400
Migratory birds	2,300	5,500	200
Participants as percent of population	2.4	(X)	0.5
Days of participation	301,800	40,100	34,700
Per hunter	17.4	3.6	10.6

X Not applicable.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, _1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Hawaii_.

Table 251.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1985

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,328	705	184.9	24.4	1,600
Hawaii	26	327	19.4	1.2	185
Maui	53	145	32.6	7.9	212
Lanai	28	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	1,198	168	50.3	12.5	594
Kauai	20	36	41.2	2.8	330

1/ As of December 31, 1985.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (quarterly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 252.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1975 TO 1985

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles, is run biennially between San Pedro, California, and Diamond Head Lighthouse, a great circle distance of 2,217 nautical miles]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1975	65	9:23:54:51	7:22:29:05
1977	66	8:11:01:45	8:11:29:24
1979	80	11:18:01:04	11:14:42:51
1981	70	8:11:02:31	7:21:44:48
1983 1/ ...	66	9:01:53:48	7:22:55:15
1985	65	13:06:31:19	9:14:07:40

1/ A catamaran, not officially entered in the race, recorded an elapsed time of 7:7:30:56.

Source: Jack Smock, Transpac, A History of the Great Race to Honolulu ... (1980), pp. 470, 497-498, 521-522, 552, and 669; The Transpacific Yacht Club, 1982-83 Transpacific Yacht Club Year Book (1983); Honolulu Advertiser, July 12, 1983, p. B-1, July 4, 1985, p. E-3, and July 19, 1985, p. G-3; Honolulu Star-Bulletin, July 15, 1983, p. C-3; Sunday Star-Bulletin and Advertiser, July 10, 1983, p. F-1.

Table 253.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1981 TO 1986

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1981	7,270	7,170	2:16:54	2:33:24
1982	12,275	10,023	2:15:30	2:41:10
1983	10,847	8,434	2:20:18	2:41:25
1984	10,653	8,166	2:16:25	2:42:49
1985	9,310	8,287	2:12:08	2:35:51
1986	10,354	8,563	2:11:43	2:31:01

Source: Honolulu Marathon Association, records.

Table 254.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1984 TO 1986

Season	Games					Home dates	
	Number played	Won	Lost	Percent won	Ahead or behind	Number	Attendance
1984:							
First half	71	42	29	.592	-0.5	31	57,247
Second half ...	69	45	24	.652	+14	32	87,376
Div. playoffs .	3	3	-	1.000	...	-	-
Champ. series .	2	-	2	.000	...	-	-
1985:							
First half	71	42	29	.592	+4.5	32	50,885
Second half ...	72	42	30	.583	-1	30	83,979
Div. playoffs .	3	-	3	.000	-3	1	2,281
1986:							
First half	72	32	40	.444	11.5	32	40,561
Second half ...	72	33	39	.458	11	28	44,100

Source: Hawaii Islanders, Inc., records.

Table 255.-- TOTAL ATTENDANCE AT FOOTBALL BOWL GAMES: 1982-1983 TO 1985-1986 SEASONS

Seasons	Aloha Bowl	Hula Bowl	Pro Bowl
1982-1983	30,002	39,456	49,883
1983-1984	37,212	26,829	47,482
1984-1985	37,996	25,890	48,124
1985-1986	30,574	20,943	47,906

Source: Hawaii State Department of Accounting and General Services, Stadium Authority, data provided April 17, 1986.

Table 256.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1980-1981 TO 1985-1986

[Data limited to games played against four-year collegiate teams]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1980-1981	50	16	-	38	40,972
1981-1982	59	17	-	42	63,846
1982-1983	47	20	-	36	51,133
1983-1984	48	22	1	42	104,177
1984-1985	56	31	-	61	106,526
1985-1986	43	24	-	42	114,367
Basketball: 2/					
1980-1981	14	13	-	18	83,785
1981-1982	17	10	-	19	73,869
1982-1983	17	11	-	18	72,343
1983-1984	12	16	-	16	59,239
1984-1985	10	18	-	19	75,070
1985-1986	4	24	-	18	51,484
Football:					
1980-1981	8	3	-	8	342,862
1981-1982	9	2	-	8	340,261
1982-1983	6	5	-	8	336,193
1983-1984	5	5	1	8	339,138
1984-1985	7	4	-	9	411,884
1985-1986	4	6	2	8	359,042

1/ Including the Rainbow Easter Tournament and post-season play.

2/ Including the Rainbow Classic.

Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office records.

Table 257.-- PUBLIC HIGH SCHOOL SPORTS: 1985-1986 SEASON

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
Baseball ..	Boys	348	66,875	179,125
Basketball	Boys and girls	864	120,205	394,600
Football ..	Boys	248	349,175	524,750

1/ Junior varsity and varsity games, based on published schedules of sports from all leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures and encumbrances reflect both general and trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, Athletics Program, letter dated August 19, 1986.

Table 258.-- BOWLING ESTABLISHMENTS (SIC 7933): 1982

[Includes only establishments with payroll]

Subject	Number	Source of receipts from customers	Amount ($1,000)
Establishments	18	Receipts, total	8,069
Lanes operated, Dec. 31	389	Bowling	6,545
Per establishment	22	Sales of food, refreshments. and alcoholic beverages ..	788
Paid lines bowled (1,000)	6,052	Other sources	736

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 22.

Table 259.-- DOG LICENSES ISSUED, BY ISLANDS: 1980 TO 1985

[Dogs licensed on an annual basis through May 27, 1980 and biennially thereafter]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1980	61,115	6,069	4,820	122	398	48,407	1,299
1981	46,706	5,532	4,349	140	393	35,081	1,211
1982	25,617	1,682	1,500	32	62	20,845	1,496
1983	41,566	3,397	3,454	98	203	33,597	817
1984	19,661	1,974	1,372	38	119	15,832	326
1985	33,598	2,809	2,171	35	111	27,654	818

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative activity.

About 420,000 persons were registered to vote in the general election of November 4, 1986, and more than 344,000 actually voted. The number voting amounted to 44 percent of the 782,000 Hawaii residents of voting age at that time. The latter figure included aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1984 primary and general elections (other than for federal offices) exceeded $6.2 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 30 active Neighborhood Board districts, and 284 election precincts.

Elective offices in Hawaii include the President and Vice President, two U.S. Senators, two U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. Persons of Hawaiian blood also vote for the Board of Trustees of the Office of Hawaiian Affairs. The minimum voting age for all races is 18 years.

The 1985 State Legislature, with 76 members, included 62 males, 35 persons under 40 years of age, 29 persons of Japanese ancestry, 15 persons born in places other than Hawaii, and 61 Democrats.

In its 1986 regular and special sessions, the State Legislature considered 5,066 bills; 367 were passed and 348 became law. The Legislature also considered 976 resolutions, of which 424 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various county clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1986, Section 9.

Table 260.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1984 AND 1986

Office	Election districts		Officials to be elected 1/		Total elected officials, including holdover	
	1984	1986	1984	1986	1984	1986
Federal offices:						
President and Vice President	...	...	2	-	2	2
U.S. Senate	...	...	-	1	2	2
U.S. House of Representatives	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor	...	...	-	2	2	2
State Senate	25	25	13	12	25	25
State House of Representatives	51	51	51	51	51	51
Board of Education	2	2	13	6	13	13
Office of Hawaiian Affairs	...	...	4	5	9	9
Soil and water conservation dist. 2/	15	15	...	...	45	45
County offices:						
Mayor	...	...	3	2	4	4
Council:						
Hawaii	...	...	9	-	9	9
Maui	...	...	9	9	9	9
Honolulu	9	9	-	9	9	9
Kauai	...	...	7	7	7	7
Prosecuting Attorney	...	...	3	-	3	3
Neighborhood Boards 3/	28	30	-	-	416	438
Precincts	276	284	-	-	-	-

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, November 12, 1986.

Table 261.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1960 TO 1986

[As of November. Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii]

Year	Persons of voting age	Percent casting votes	
		For Presidential Electors	For U.S. Representatives
1960	371,000	49.7	49.2
1962	390,000	(X)	49.9
1964	404,000	51.3	56.9
1966	417,000	(X)	49.9
1968	439,000	53.8	55.3
1970	473,000	(X)	44.0
1972	547,000	49.4	50.3
1974	586,000	(X)	44.3
1976	624,000	46.7	47.0
1978	657,000	(X)	38.6
1980	696,000	43.6	40.3
1982	725,000	(X)	41.1
1984 1/	758,000	44.3	36.4
1986	2/ 782,000	(X)	42.3

X Not applicable.

1/ Revised from Data Book 1985, table 239.

2/ Of this number, approximately 148,000 were aliens or were military personnel and dependents with legal residence elsewhere. There were thus around 634,000 persons eligible to vote, of whom 66.2 percent were registered and 54.3 percent actually voted in November 1986.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1980," Current Population Reports, Series P-25, No. 879, March 1980; "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982; "Projections of the Population of Voting Age for States: November 1984," Current Population Reports, Series P-25, No. 948, April 1984; and "Census Bureau Projects Highest Voting-Age Population Total," Release CB86-65, April 25, 1986. Persons eligible to vote, registered, and casting votes in 1986 calculated by DPED.

Table 262.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS: 1980 TO 1984

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age]

Election	Percent registered			Percent voting		
	1980	1982	1984	1980	1982	1984
Primary	42.2	40.9	40.7	29.0	28.9	22.7
General	44.2	43.0	42.8	34.9	34.5	35.6

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election: Hawaii State Department of Planning and Economic Development, Statistical Report 190, table 2.

Table 263.-- REPORTED VOTING AND REGISTRATION, BY SEX: NOVEMBER 1984

[Number 18 and over in thousands. Percentages based on a sample]

Race	All persons 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
Total 1/	755	59.2	1.7	54.5	1.7
Percent	100.0	(X)	(X)	(X)	(X)
Male	48.3	58.0	2.4	54.0	2.4
Female	51.9	60.2	2.3	55.0	2.4
White	29.7	67.3	3.0	60.8	3.1

X Not applicable.

1/ For the United States as a whole, 68.3 ± 0.2 percent of the voting-age population reported they had registered, and 59.9 ± 0.2 percent reported they had voted.

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1984 (Advanced Report)," Current Population Reports, Population Characteristics, Series P-20, No. 397, January 1985, p. 7.

Table 264.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS: 1970 TO 1986

Type and date of election	Registered voters 1/			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	(NA)	(NA)	202,401	71.7
1972: Oct. 7	326,906	(NA)	(NA)	203,160	62.1
1974: Oct. 5	333,527	(NA)	(NA)	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18 ...	385,307	185,763	199,544	272,691	70.8
1984: Sept. 22 ...	398,858	190,525	208,333	221,957	55.6
1986: Sept. 20 ...	398,197	189,655	208,542	281,352	70.7
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
1984: Nov. 6	418,904	200,424	218,480	349,253	83.4
1986: Nov. 4	419,794	200,233	219,561	344,416	82.0

NA Not available.

1/ Data by sex not available for primary elections before 1976.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election, and records.

Table 265.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1986

[Excludes persons registered for only the Office of Hawaiian Affairs election but not for the regular primary or general elections]

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	398,197	189,655	208,542	281,352	70.7
Hawaii	48,166	23,128	25,038	31,636	65.7
Maui	35,454	16,925	18,529	24,221	68.3
Honolulu	292,653	138,867	153,786	208,638	71.3
Kauai	21,924	10,735	11,189	16,855	76.9
Overseas	-	-	-	2	...
GENERAL ELECTION					
State total ..	419,794	200,233	219,561	344,416	82.0
Hawaii	50,107	24,118	25,989	40,370	80.6
Maui	38,055	18,204	19,851	31,103	81.7
Honolulu	308,808	146,707	162,101	253,490	82.1
Kauai	22,824	11,204	11,620	19,449	85.2
Overseas	-	-	-	4	...

Source: Office of the Lieutenant Governor, records.

Table 266.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1976 TO 1986

Primary election	Total votes cast	Demo- cratic	Repub- lican	Other par- ties	Non- parti- san	Inval- idated
1976	251,457	215,037	35,495	568	357	-
1978 1/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217
1982	272,691	245,426	13,262	12,681	1,013	309
1984	221,957	177,102	43,306	695	455	399
1986	281,352	235,559	44,304	-	1,023	466

1/ Party data add to 288,932 rather than reported total.

Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown, and records.

Table 267.-- PARTY OF VOTES CAST IN PRIMARY ELECTION, BY COUNTIES: SEPTEMBER 20, 1986

Party	State total	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast	281,352	31,636	24,221	208,640	16,855
Democratic	235,559	26,572	17,908	175,778	15,301
Libertarian 1/	-	-	-	-	-
Republican	44,304	4,977	6,204	31,626	1,497
Nonpartisan	1,023	74	76	826	47
Invalidated	466	13	33	410	10

1/ Not on primary ballot.

Source: Office of the Lieutenant Governor, printouts.

Table 268.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY AND SPECIAL ELECTIONS, SEPTEMBER 20, 1986

Office, party and candidate	Votes
PRIMARY ELECTION:	
U.S. SENATOR	
Democrat:	
Daniel K. Inouye	191,676
Republican:	
Marvin Franklin	9,714
Frank Hutchinson	20,375
Nonpartisan:	
Elizabeth A. P. Stone	614
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Neil Abercrombie	45,107
Louis Agard	898
Steve Cobb	22,779
Mufi Hannemann	46,269
Republican:	
Patricia Saiki	17,453
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel Akaka	93,729
Republican:	
Maria M. Hustace	14,404
GOVERNOR	
Democrat:	
Johnny Fritz	654
Cec Heftel	83,939
Tony Hodges	1,732
William K. Kuaiwa	918
Patsy T. Mink	37,998
Paul H. Snider	740
John Waihee	105,579
Republican:	
D.G. Anderson	38,790
Charles Y. Hirayasu	531
Jack J. Mahakian	403
Wayne C. Thiessen	1,277

Continued on next page.

Table 268.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY AND SPECIAL ELECTIONS, SEPTEMBER 20, 1986 -- Con.

Office, party, and candidate	Votes
PRIMARY ELECTION -- Con.:	
LIEUTENANT GOVERNOR	
Democrat:	
Eileen R. Anderson	87,317
Ben Cayetano	130,124
Frank DeCambra	3,259
Helen M. A. Lai	4,490
Republican:	
Vicky Bunye	8,799
John H. Felix	17,228
Richard I. Sutton	3,268
Cynthia Thielen	11,325
MAYOR COUNTY OF MAUI	
Democrat:	
Bill Eger	3,639
Marvin Miura	7,952
Republican:	
Joe Bulgo	1,759
Hannibal Tavares	4,251
MAYOR, COUNTY OF KAUAI	
Democratic:	
Raymond X. Aki	6,366
Tony T. Kunimura	7,739
Republican:	
John F. Barretto, Jr.	1,131
John Sousa	145
SPECIAL ELECTION:	
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Neil Abercrombie (Democrat)	42,031
Patricia Saiki (Republican)	41,067
Mufi Hannemann (Democrat)	39,800
Steve Cobb (Democrat)	16,721
Louis Agard (Democrat)	566
Blase Harris (Nonpartisan)	460

Source: Office of the Lieutenant Governor, printouts.

Table 269.-- NUMBER OF PRECINCTS, REGISTERED VOTERS, AND VOTES CAST, BY ISLANDS: NOVEMBER 4, 1986

Island	Number of precincts	Registered voters	Votes cast 1/
State total	284	419,794	344,387
Hawaii	51	50,107	40,368
Maui	31	34,263	28,386
Lanai	1	865	753
Molokai: Molokai District	4	2,829	1,891
Kalawao District	1	98	71
Oahu 2/	178	308,808	253,466
Kauai	17	22,699	19,371
Niihau	1	125	77

1/ Total includes 4 overseas voters.

2/ Including the Northwestern Hawaiian Islands, part of the 5th Precinct of the 20th Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results, and records.

Table 270.-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 4, 1986

Age	Both sexes	Male	Female
All ages	419,794	200,233	219,561
18 or 19 years	7,721	3,393	4,328
20 to 29 years	71,539	31,840	39,699
30 to 39 years	97,117	45,017	52,100
40 to 49 years	74,691	35,827	38,864
50 to 64 years	98,874	47,483	51,391
65 years and over	69,809	36,662	33,147
Not reported	43	11	32

Source: Office of the Lieutenant Governor, records.

Table 271.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1976 TO 1986

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
1984	335,846	Mondale	147,154	Reagan	185,050	3,642
U.S. SENATOR						
1976	302,092	Matsunaga ...	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
1982	306,410	Matsunaga ...	245,386	Brown	52,071	8,953
1986	328,797	Inouye, D. ..	241,887	Hutchinson .	86,910	-
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1976	137,602	Heftel	60,050	Rohlfing ...	53,745	23,807
1978	115,412	Heftel	84,552	Spillane ...	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
1982	149,907	Heftel	134,779	None	-	15,128
1984	138,865	Heftel	114,884	Beard	20,608	3,373
1986 1/	168,377	Hannemann ...	63,061	Saiki	99,683	5,633
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1976	156,099	Akaka	124,116	Inouye, H. .	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
1982	148,008	Akaka	132,072	None	-	15,936
1984	136,741	Akaka	112,377	Shipley	20,000	4,364
1986	162,819	Akaka	123,830	Hustace	35,371	3,618
GOVERNOR						
1978	281,587	Ariyoshi ...	153,394	Leopold	124,610	3,583
1982	315,853	Ariyoshi ...	141,043	Anderson, D.	81,507	89,303
1986	334,115	Waihee	173,655	Anderson, D.	160,460	-

Continued on next page.

Table 271.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1976 TO 1986 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013
1984	253,853	Anderson, E.	117,841	Fasi	132,875	3,137

1/ For special election to fill unexpired term of Rep. Heftel, Sept. 20, 1986, see table 268.

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1976-1984, 1986 General Elections - Statewide Results, and 1986 tabular addendum.

Table 272.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 4, 1986

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total	59,895	26,354	33,541	47,420	79.2
Hawaii	8,526	3,754	4,772	6,794	79.7
Maui	6,350	2,827	3,523	5,188	81.7
Honolulu	41,592	18,183	23,409	32,632	78.5
Kauai	3,427	1,590	1,837	2,806	81.9

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results, and records.

Table 273.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES: GENERAL ELECTION, 1986

Office, candidate and party	State total 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
U. S. SENATOR					
Inouye (D)	241,887	28,247	22,379	176,839	14,419
Hutchinson (R)	86,910	10,367	7,010	66,021	3,511
REPRESENTATIVE TO CONGRESS, DISTRICT 1					
Saiki (R)	99,683	-	-	99,681	-
Hannemann (D)	63,061	-	-	63,060	-
Harris (L)	5,633	-	-	5,633	-
REPRESENTATIVE TO CONGRESS, DISTRICT 2					
Akaka (D)	123,830	29,045	22,142	57,736	14,906
Hustace (R)	35,371	8,348	6,464	17,837	2,722
Schoolland (L)	3,618	852	590	1,910	266
GOVERNOR					
Waihee (D)	173,655	21,153	16,494	124,920	11,088
Anderson (R)	160,460	17,954	13,456	121,327	7,723
MAYOR, COUNTY OF MAUI					
Tavares (R)	15,921	-	15,921	-	-
Miura (D)	13,772	-	13,772	-	-
MAYOR, COUNTY OF KAUAI					
Kunimura (D)	10,025	-	-	-	10,025
Barretto (R)	8,352	-	-	-	8,352

1/ Includes overseas voters, not shown separately.

Source: Office of the Lieutenant Governor, 1986 General Elections - Statewide Results and tabular addendum.

Table 274.-- CAMPAIGN EXPENDITURES: 1984 ELECTIONS

[Dollars]

Election and office	All candidates	Democrats	Republicans	All others
PRIMARY 1/				
All races reported .	3,653,367.68	3,134,798.17	517,642.96	926.55
State Senator	569,146.71	433,634.49	135,512.22	-
State Representative	1,022,648.72	817,921.81	204,701.91	25.00
Mayor	1,464,456.52	1,372,603.93	91,038.05	814.54
Prosecuting Attorney	71,604.06	37,295.57	34,308.49	-
County Council	525,511.67	473,342.37	52,082.29	87.01
GENERAL 2/				
All races reported .	2,558,681.70	1,555,543.45	866,432.92	136,705.33
State Senator	352,550.19	202,767.34	149,782.85	-
State Representative	499,843.96	324,647.86	175,196.10	-
Mayor	1,192,374.69	783,088.51	409,140.96	145.22
Prosecuting Attorney	150,221.52	64,929.61	85,291.91	-
County Council	227,131.23	180,110.13	47,021.10	-
Board of Education	79,302.34	-	-	79,302.34
Office of Hawaiian Aff. .	57,257.77	-	-	57,257.77
TOTAL 3/				
All races reported .	6,212,049.38	4,690,341.62	1,384,075.88	137,631.88
State Senator	921,696.90	636,401.83	285,295.07	-
State Representative	1,522,492,68	1,142,569.67	379,898.01	25.00
Mayor	2,656,831.21	2,155,692.44	500,179.01	959.76
Prosecuting Attorney	221,825.58	102,225.18	119,600.40	-
Council Council	752,642.90	653,452.50	99,103.39	87.01
Board of Education	79,302.34	-	-	79,302.34
Office of Hawaiian Aff. .	57,257.77	-	-	57,257.77

1/ Expenditures from January 1, 1984, through September 22, 1984.

2/ Expenditures from September 23, 1984, through December 31, 1984.

3/ Total includes primary and general expenditures, and supplemental expenditures made after election days through December 31, 1984.

Source: State Campaign Spending Commission, data provided May 3, 1985.

Table 275.-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1981 TO 1985

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)	Votes cast
	In operation, Dec. 31	Holding elections				
1981 1/ ..	28	28	416	294,735	48,745	178,042
1983	28	28	416	231,622	62,573	235,275
1985 2/ ..	30	30	438	261,222	76,674	341,458

1/ First simultaneous election, May 1, 1981; all mail-in ballots.

2/ As of July 1. A special election was held in addition to the regular biennial elections.

Source: Neighborhood Commission, City and County of Honolulu, records.

Table 276.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1984 AND 1986

[As of January]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1984	1986	1984	1986	1984	1986
All counties	34	29	29	5	5	-	-
Hawaii	9	8	7	1	2	-	-
Maui	9	8	8	1	1	-	-
Honolulu 1/	9	7	7	2	2	-	-
Kauai	7	6	7	1	-	-	-

1/ In 1985, three Democrats switched to the Republican party. After a special recall election, all three were replaced by Democrats.

Source: The Chamber of Commerce of Hawaii, Who's Who in Government, State of Hawaii for 1983-1984 (pp. 27-34) and 1985-1986 (pp. 30-37).

Table 277.-- LENGTH OF LEGISLATIVE SESSIONS: 1981 TO 1986

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1981	Jan. 21	100	June 22	8
1982	Jan. 20	99	May 5	2
1983	Jan. 19	94	Sept. 1	2
1984	Jan. 18	93	July 9	5
1985	Jan. 16	97	None	-
1986	Jan. 15	99	July 24	7

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution.

Source: Legislative Reference Bureau, Hawaii Legislators' Handbook, 8th edition (March 1983), Appendix E, pp. 98-100, as corrected, and records.

Table 278.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1977 TO 1987

Regular session	House of Representatives				Senate			
	Total	Demo-crats	Repub-licans	Other	Total	Demo-crats	Repub-licans	Other
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-
1983 ..	51	43	8	-	25	20	5	-
1985 ..	51	40	11	-	25	21	4	-
1987 ..	51	40	11	-	25	20	5	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1975-1985; Office of the Lieutenant Governor, records.

Table 279.-- COMPOSITION OF THE 1985 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	40	11	25	21	4
Island of residence:						
Hawaii	6	5	1	3	2	1
Maui	3	3	-	2	2	-
Lanai	-	-	-	-	-	-
Molokai	1	-	1	-	-	-
Oahu	39	30	9	19	16	3
Kauai	2	2	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1924 or earlier	1	1	-	4	3	1
1925 to 1934	9	5	4	6	4	2
1935 to 1944	11	8	3	10	9	1
1945 to 1954	27	23	4	5	5	-
1955 or later	3	3	-	-	-	-
Sex:						
Male	43	36	7	19	17	2
Female	8	4	4	6	4	2
Ethnic stock:						
Caucasian, except Portuguese	8	5	3	5	3	2
Chinese	3	3	-	2	2	-
Filipino	4	4	-	1	1	-
Japanese	18	17	1	11	10	1
Portuguese	2	1	1	1	-	1
Other (unmixed) 1/ ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	9	7	2	5	5	-
Mixed: Non-Hawaiian .	7	3	4	-	-	-
Place of birth:						
Hawaii	39	33	6	22	19	3
Mainland U.S.	9	4	5	3	2	1
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	3	3	-	-	-	-

1/ Black, Hawaiian, Korean, Puerto Rican, Samoan, or other unspecified ethnic stock.

Source: Office of the Lieutenant Governor, letter dated June 26, 1985.

Table 280.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1984 TO 1986

Action	1984		1985: Regular	1986	
	Regular	Special		Regular	Special
House bills:					
Carried over from previous year	1,439	-	-	1,512	-
Introduced	987	1	1,660	1,199	9
Enacted 1/	203	1	148	259	-
Vetoed 2/, 3/	13	-	12	12	-
Became law 2/, 4/	187	1	134	247	-
Senate bills:					
Carried over from previous year	1,369	-	-	1,303	-
Introduced	760	1	1,487	1,040	3
Enacted	109	-	184	108	2
Vetoed 2/	4	-	12	7	-
Became law 2/	104	-	172	101	2
House resolutions:					
Offered	447	1	483	382	-
Adopted	187	1	210	212	-
House concurrent resolutions:					
Offered	151	-	154	216	-
Adopted	42	-	16	59	-
Senate resolutions:					
Offered	183	-	194	213	-
Adopted	91	-	88	136	-
Senate concurrent resolutions:					
Offered	137	-	140	165	-
Adopted	9	-	6	17	-

1/ Figure for 1986 regular session, includes H.B. 1954, which is a constitutional amendment.

2/ Excludes bills which passed the Legislature, proposing amendments to the State Constitution: H.B. 1213, H.B. 1947, H.B. 1948, and S.B. 2072 in the 1984 regular session and H.B. 29 and H.B. 355 in 1985.

3/ Figure for 1986 regular session excludes H.B. 1741 (Act 345, S.L.H. 1986), which contains a line item veto.

4/ Figure for 1986 regular session includes H.B. 107, which became Act 3 and Act 94, S.L.H. 1986.

Source: Legislative Reference Bureau, records.

Section 9

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and county governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and county governments in fiscal 1985 reached $3.9 billion, more than twice the level reported ten years earlier. The 1985 total included $2.1 billion in U.S. taxes, $1.4 billion in State taxes, and $366 million in county taxes, licenses and fees. Individual income taxes accounted for 88 percent of Federal collections and 30 percent of State collections in Hawaii in 1985. State revenue receipts totaled $2.4 billion, chiefly from the general excise and use tax ($684 million), individual income tax ($429 million) and Federal grants-in-aid ($353 million). The largest expenditure item in the State accounts for 1985 was education, with $704 million (out of $2.25 billion) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State tripled between 1976 and 1986, reaching $53 billion by the end of the period; of this total, $7 billion was exempt from taxation. Public bonded debt outstanding at the end of 1985 exceeded $3.1 billion.

Total government employment in 1985 averaged 93,000, about 5 percent over the 1980 average. The 1985 total included 32,400 Federal workers, 47,400 persons employed by the State, and 13,500 persons on county payrolls. State civil service employees as of mid-1985 numbered 18,500.

Important sources for statistics on government in Hawaii include the U.S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, *Government in Hawaii: A Handbook of Financial Statistics*. Data extending back to the middle of the 19th century are summarized in *Historical Statistics of Hawaii*, Section 25. Comparable Mainland statistics appear in the *Statistical Abstract of the United States: 1986*, Sections 10 and 11.

Table 281.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1970 TO 1985

[Thousands of dollars]

Year	All levels	Federal 1/	State and counties 2/		
			Total	State	Counties
1970	1,061,376	602,998	458,378	438,397	15,981
1971	1,105,657	608,051	497,606	480,690	16,916
1972	1,162,700	632,583	530,117	512,047	18,070
1973	1,327,150	735,358	591,792	571,689	20,104
1974	1,512,414	840,089	672,325	650,855	21,470
1975 3/ .	1,852,801	1,087,520	765,281	743,923	21,358
1976	1,821,934	945,899	876,035	850,639	25,396
1977	2,038,318	1,106,687	931,631	905,949	25,682
1978	2,228,779	1,208,480	1,020,299	986,182	34,117
1979	2,620,194	1,455,225	1,164,969	1,127,677	37,292
1980	2,966,218	1,670,459	1,295,669	1,255,622	40,047
1981	3,245,507	1,826,363	1,419,144	1,371,490	47,655
1982	3,314,107	1,876,628	1,437,479	1,132,699	304,779
1983	3,451,664	1,897,858	1,553,806	1,225,010	328,796
1984	3,655,283	1,980,467	1,674,816	1,331,551	343,265
1985	3,922,943	2,116,774	1,806,169	1,440,553	365,616

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.

2/ Fiscal years ended June 30. Totals include taxes collected from visitors and other nonresidents.

3/ Revised from Data Book 1985, table 258.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual).

Table 282.-- TAX COLLECTIONS RELATIVE TO POPULATION AND PERSONAL INCOME, BY LEVEL OF GOVERNMENT: 1970 TO 1985

[Data include taxes collected in Hawaii from visitors and other nonresidents. Revised from Data Book 1985, table 259]

Year	Per capita collections 1/ (dollars)			Collections as a percent of personal income 2/		
	All levels	Federal 3/	State and counties 4/	All levels	Federal 3/	State and counties 4/
1970 ..	1,376	781	594	28.0	15.9	12.1
1971 ..	1,379	759	621	27.1	14.9	12.2
1972 ..	1,404	764	640	25.9	14.1	11.8
1973 ..	1,558	864	695	26.6	14.8	11.9
1974 ..	1,742	968	775	26.4	14.7	11.7
1975 ..	2,091	1,227	864	30.0	17.6	12.4
1976 ..	2,015	1,046	969	27.2	14.1	13.1
1977 ..	2,220	1,205	1,015	28.2	15.3	12.9
1978 ..	2,329	1,297	1,095	27.7	15.0	12.7
1979 ..	2,749	1,527	1,222	29.0	16.1	12.9
1980 ..	3,062	1,724	1,337	28.8	16.2	12.6
1981 ..	3,310	1,863	1,447	29.3	16.5	12.8
1982 ..	3,321	1,881	1,441	28.1	15.9	12.2
1983 ..	3,386	1,862	1,524	26.8	14.8	12.1
1984 ..	3,524	1,909	1,615	26.7	14.5	12.2
1985 ..	3,722	2,009	1,714	26.9	14.5	12.4

1/ Based on estimated resident population, July 1.

2/ Based on income estimates for calendar years.

3/ Collections data refer to fiscal years ended June 30 through 1976 and September 30 thereafter.

4/ Collection data refer to fiscal years ended June 30.

Source: Calculated from collections data in preceding table, population estimates in DPED Statistical Reports 172 and 190, and income estimates in U.S. Bureau of Economic Analysis printout dated August 1986.

Table 283.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1975, 1984, AND 1985

[In thousands of dollars]

Source	1975 1/	1984 2/	1985 2/
Total, all levels	1,852,801	3,655,283	3,922,943
Federal collections	1,087,520	1,980,467	2,116,774
Indiv. income and employment 3/	812,775	1,729,041	1,861,697
Corp. income and excess profits	244,506	180,576	166,475
Estate	8,555	20,373	39,406
Unemployment insurance	4,684	15,822	15,169
Other sources	17,000	34,656	34,027
State collections	743,923	1,331,551	1,440,553
General excise and use	287,479	639,630	684,028
Fuel	31,639	54,909	58,539
Liquor	12,783	(209)	20,635
Tobacco	8,706	19,949	19,717
Insurance	9,886	26,606	28,705
Public service companies	24,668	59,559	62,305
Corporate income 4/	31,505	36,431	44,837
Indiv. income, net income 5/	168,670	403,076	429,256
Inheritance and estate	3,479	6,652	12,260
Unemployment compensation	30,137	76,297	68,701
Other sources	134,971	8,651	11,570
County collections	21,358	343,265	365,616
Real property	-	289,114	308,156
Utility franchise	3,961	16,967	18,779
Motor vehicle weight 6/	11,713	25,582	26,253
Other sources	5,684	11,602	12,447

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for Federal collections and June 30 for others. Data for 1984 revised from *Data Book 1985*, table 260.

3/ Includes withholding, FICA, individual income, and railroad retirement taxes.

4/ Includes payments of estimated taxes less refunds.

5/ Includes withheld and estimated taxes less refunds, and delinquent compensation taxes (repealed January 1, 1958).

6/ Includes State motor vehicle weight tax for 1984 and 1985.

Source: Tax Foundation of Hawaii, *Government in Hawaii, 1986*, tables 13 and 29.

Table 284.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1984

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii]

Tax category 1/	Amount (dollars)
Total tax burden 2/	16,782
Direct taxes	13,361
Real property	739
Automobile	312
General excise (sales)	1,026
State income	2,579
Federal income	5,831
Social Security	2,874
Indirect taxes (specific taxes)	235
Employment taxes paid by employer	7,730
Social Security	3,003
Unemployment Compensation	667
Workers' Compensation	3,610
Temporary Disability	215
Assumed gross family income	49,584
Net income	32,802

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, *The Tax Burden of the Arnie Aloha Family* (August 1985).

Table 285.-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR THE CITY AND COUNTY OF HONOLULU: 1984

[Data based on average family of four (wage earner, spouse, and two school-age children) which owns its own home. Comprises State and local sales, income, auto, and real estate taxes]

Income level	Total tax paid (dollars)	Percent of income
$15,000	1,177	7.9
$25,000	2,108	8.4
$35,000	3,108	8.9
$50,000	4,745	9.5
$75,000	7,374	9.8

Source: Study by District of Columbia Department of Finance and Revenue, cited in Statistical Abstract of the United States: 1986, p. 293.

Table 286.-- STATE TAX CAPACITY, 1967 TO 1984, AND EFFORT, 1984

[U.S. average = 100]

Measure	1967	1975	1980	1983	1984
State tax capacity or wealth 1/ ..	99	109	107	114	118
State tax effort 2/	...	...	...	...	99

1/ Tax capacity, as estimated under the Representative Tax System (RTS) methdology, is a hypothetical measure of how much revenue a state could raise if it levied national average tax rates and used tax bases representative of most other states.

2/ A measure of the extent to which a state uses the tax bases available to it, relative to the national average.

Source: U.S. Advisory Commission on Intergovernmental Relatives, "1984 State Tax Wealth: Preview of the RTS Estimates," Intergovernmental Perspective, Summer 1986, pp. 24-28.

Table 287.-- STATE REVENUE RECEIPTS: 1984 AND 1985

[In thousands of dollars. Years ended June 30]

Source of revenues	1984: all funds 1/	1985		
		All funds	General funds	Special funds
Total 2/	2,234,818	2,381,803	1,434,258	947,545
Tax revenues	1,320,362	1,426,877	1,298,445	128,432
General excise	639,630	684,028	669,929	14,100
Specific excises 3/	152,497	178,672	133,905	44,767
Individual income	402,419	428,722	428,722	-
Corporate income	36,431	44,837	44,837	-
Unemployment compensation	76,297	68,701	-	68,701
Other taxes, licenses, permits 4/	13,088	21,917	21,052	865
Fines, forfeits, and escheats	9,520	11,366	10,036	1,329
Federal grants-in-aid	378,791	352,777	10,636	342,141
Revenues from other agencies	9,327	9,584	2,419	7,165
Rents, royalties, land income	75,191	87,487	58,850	28,637
Earnings: general departments	173,029	182,085	49,090	132,995
Earnings: auxiliary enterprises ..	25,967	29,579	-	29,579
Earnings: public service enterp. ..	105,927	113,598	-	113,598
Interest earned	37,013	50,738	1,416	49,322
Miscellaneous	99,691	117,714	3,366	114,348

1/ Revised from Data Book 1985, table 264.
2/ Excludes transfers and repayments except as shown.
3/ Includes public utilities, tobacco, liquor, insurance, and fuel taxes.
4/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1986, table 12.

Table 288.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1975, 1984, AND 1985

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1975 data are not exactly comparable to later years. Data include general, special, and proprietary fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1975	1984	1985
Total	1,071,523	2,077,673	2,245,847
General government: Control	15,383	46,029	51,787
Staff	37,774	82,102	92,995
Public safety: Police and fire	247	1,682	2,066
Other protection	41,283	71,662	78,853
Highways	19,279	49,041	128,498
Natural resources	13,867	17,172	21,031
Health and sanitation	19,798	72,631	80,890
Hospitals and institutions	48,938	114,557	110,693
Public welfare	133,529	328,400	321,112
Education: Higher	126,528	269,796	272,478
Public schools	198,978	405,228	414,815
Libraries and other	8,621	21,233	16,785
Recreation	4,294	13,827	14,256
Utilities and other enterprises	45,379	76,990	84,462
Debt service 1/	72,260	213,293	232,801
Retirement and pension	43,761	126,006	142,354
Employees' health and hosp. insurance	8,927	24,856	32,644
Unemployment compensation	55,611	78,278	79,562
Grants-in-aid to counties	19,448	18,173	18,173
Urban redevelopment and housing	74,183	11,619	7,476
Miscellaneous	13,205	25,111	25,416
Cash capital improvements 2/	70,230	9,987	16,700

1/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; from Sand Island receipts, land revolving trust, and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds accounted for $58,899,783 in 1975, $8,939,166 in 1984, and $9,402,204 in 1985.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1986, table 35.

Table 289.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1975, 1984, AND 1985

[In thousands of dollars. For years ended June 30]

Subject	1975	1984 1/	1985
OPERATING REVENUES 2/			
Total	259,310	561,064	586,445
Real property taxes	128,668	289,114	308,156
Other taxes	26,092	53,621	58,420
Fees, licenses, permits, and fines	7,438	14,801	15,392
Departmental earnings and charges	14,510	67,042	78,136
State grants	22,561	26,255	26,496
Federal grants	55,571	87,635	74,519
Other sources	4,470	22,596	25,324
OPERATING EXPENDITURES 3/			
Total	259,674	558,987	592,618
General government: Control	4,244	7,985	8,812
Staff	21,413	60,584	57,983
Public safety: Police and fire	55,827	120,659	128,528
Other protection	9,876	23,294	21,365
Highways	15,657	27,601	27,194
Health and sanitation	16,280	46,172	50,107
Public welfare	601	6,377	6,859
Public schools	446	597	584
Recreation	19,494	39,085	40,529
Interest	11,358	21,552	24,054
Bond redemption	17,421	19,317	19,427
Pension and retirement	15,640	46,770	53,632
Economic and urban development	19,451	21,568	18,157
Mass transit	7,809	38,522	47,468
Miscellaneous	10,665	21,622	35,803
Cash capital improvements	33,494	57,282	52,116

Footnotes and source follow next table.

Table 290.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1985

[In thousands of dollars. For year ended June 30, 1985]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 2/				
Total	437,101	51,010	64,485	33,849
Real property taxes	226,130	25,235	38,496	18,295
Other taxes	44,104	6,091	5,545	2,680
Fees, licenses, permits, and fines	11,248	2,074	1,486	584
Departmental earnings and charges	61,851	8,040	4,837	3,409
State grants	8,263	6,810	7,434	3,989
Federal grants	62,012	2,058	5,835	4,614
Other sources	23,493	701	853	277
OPERATING EXPENDITURES 3/				
Total	437,319	61,707	63,554	30,038
General government: Control	5,506	909	1,591	806
Staff	39,496	7,234	6,877	4,375
Public safety: Police and fire	91,110	11,718	18,650	7,050
Other protection	14,805	1,474	3,878	1,208
Highways	15,569	4,550	4,301	2,774
Health and sanitation	40,795	5,292	2,843	1,178
Public welfare	-	3,363	2,416	1,079
Public schools	-	179	283	122
Recreation	29,885	3,582	5,086	1,976
Interest	15,974	2,566	3,843	1,671
Bond redemption	16,679	1,515	1,218	15
Pension and retirement	38,515	3,506	8,855	2,757
Economic and urban development	18,157	-	-	-
Mass transit	46,558	-	910	-
Miscellaneous	27,185	3,852	1,645	3,121
Cash capital improvements	37,087	11,967	1,156	1,905

1/ Revised from Data Book 1985, table 266.

2/ Excludes loan, bond, revolving, improvement district, and certain trust funds, water revenues, Hilo Hospital, and Act 95, SLH 1965 special funds.

3/ Excludes certain revolving, bond, and Act 97 fund expenditures, loan repayments, Hilo Hospital special fund, and urban redevelopment land purchases. Interfund transfers omitted to avoid duplication.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1986, tables 24-27 and 36-39.

Table 291.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1984

Year income was received	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total ($1,000)	Per return (dollars)	Per exemption 1/ (dollars)
1969	290,251	716,153	2,407,048	8,293	3,361
1970	302,426	763,992	2,802,445	9,267	3,668
1971	308,814	809,612	3,010,051	9,747	3,718
1972	318,023	763,985	3,250,608	10,221	4,255
1973	345,211	832,636	3,749,212	10,861	4,503
1974	346,824	805,533	3,957,023	11,409	4,912
1975	358,510	841,976	4,269,028	11,908	5,070
1976	362,956	815,937	4,625,609	12,744	5,669
1977	380,937	847,098	5,218,740	13,700	6,161
1978	403,217	925,125	5,943,659	14,741	6,425
1979	412,922	880,845	6,493,228	15,725	7,372
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982	445,953	1,027,743	8,236,603	18,470	8,014
1983	450,097	1,037,030	8,652,808	19,224	8,344
1984	461,424	1,055,297	9,322,406	20,204	8,834

1/ Exemptions for age or blindness excluded through 1981 and included thereafter.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual); SOI Bulletin, Summer 1985, p. 93, and Winter 1985-86, p. 97; and records.

Table 292.-- CHARACTERISTICS OF INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEAR 1984

Subject	Number of returns	Amount ($1,000)
All returns and adjusted gross income (AGI) ...	461,424	9,322,406
Salaries and wages	400,452	7,765,670
Dividends after exclusion	68,520	193,874
Tax liability	392,619	1,224,322
Earned income credit	17,085	-4,464
Interest	336,810	722,525
Unemployment compensation in AGI	19,483	30,925
Itemized deductions	189,399	1,852,314

Source: U.S. Treasury Department, SOI Bulletin, Winter 1985-86, pp. 97-99.

Table 293.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1981 TO 1984

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms, and other factors]

Size of adjusted gross income	1981	1982	1983	1984
All returns	437,977	445,953	450,097	461,424
Under $10,000	176,181	169,298	164,475	161,843
$10,000 under $15,000	65,966	68,692	69,635	71,096
$15,000 under $50,000	176,430	186,863	191,476	199,683
$50,000 and over	19,400	21,100	24,511	28,802
Median income (dollars)	13,245	13,907	14,349	14,843

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns for 1981, and Individual Master File for 1982, 1983, and 1984.

Table 294.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS: TAX YEARS 1983 AND 1984

Size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
1983				
All returns	450,097	8,652,808	379,140	1,129,902
Under $10,000	164,475	639,587	97,238	39,745
$10,000 under $15,000 ..	69,635	863,628	68,012	72,589
$15,000 under $50,000 ..	191,476	5,318,691	189,475	651,544
$50,000 and over	24,511	1,830,903	24,415	366,025
1984				
All returns	461,424	9,322,406	392,619	1,224,322
Under $10,000	161,843	618,293	97,088	39,377
$10,000 under $15,000 ..	71,096	883,948	69,277	72,166
$15,000 under $50,000 ..	199,683	5,546,699	197,558	652,285
$50,000 and over	28,802	2,273,465	28,696	460,495

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1983 and 1984, Individual Master File, provided May 27, 1986.

Table 295.-- INTERNAL REVENUE SERVICE OPERATIONS: 1983 TO 1985

Subject	1983	1984	1985
Internal revenue collections ($1,000)	1,897,858	1,980,467	2,116,774
Individual income and employment taxes	1,694,375	1,744,863	1,876,866
Total returns filed	795,248	789,737	797,835
Individual income tax	443,471	448,974	459,491
Returns examined	7,413	7,019	8,197
Individual	6,576	6,217	7,359
Additional tax and penalties recommended after examination ($1,000)	31,748	39,654	42,613
Individual	13,787	17,742	20,631
Costs incurred ($1,000)	8,415	8,902	8,638

Source: Annual Report, Commissioner and Chief Counsel, Internal Revenue Service for 1983, 1984, and 1985.

Table 296.-- RESIDENT INDIVIDUAL STATE INCOME TAX RETURNS: TAX YEARS 1980 TO 1984

Year income was received	Number of resident returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
1980	423,858	6,506,757	4,275,817	321,738
1981	448,320	6,884,575	4,479,808	336,497
1982	422,535	6,912,014	4,469,031	339,108
1983	424,194	7,088,769	4,695,499	360,551
1984	422,245	7,604,199	4,980,484	387,300

1/ Exclusive of losses.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns Individuals (annual).

Table 297.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN, 1968 TO 1984, AND BY COUNTIES, 1984

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single 1/	Joint	All returns	Single 1/	Joint
1968	6,380	2,595	10,618	7,474	3,815	11,235
1969	6,534	2,623	11,581	7,915	3,839	12,156
1970	7,018	2,969	12,358	8,348	3,981	13,072
1971	7,366	2,962	12,685	8,936	4,263	13,497
1972	7,462	3,284	13,515	9,218	4,553	14,358
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977	8,725	4,236	17,716	11,057	5,838	19,718
1978	9,302	4,538	20,276	12,279	6,274	22,335
1979	8,738	4,757	20,073	11,804	6,875	22,636
1980	9,676	5,294	21,510	13,464	7,639	24,980
1981	10,220	5,794	23,321	14,737	8,455	26,881
1982	11,178	6,080	23,737	15,466	9,636	27,285
1983	11,297	6,432	25,047	15,937	10,009	29,076
1984	12,035	6,858	25,290	16,565	10,540	28,935
COUNTIES: 1984						
Honolulu ...	12,365	7,096	27,015	16,830	10,585	30,590
Maui	13,100	7,652	24,060	16,985	11,365	26,795
Hawaii	8,672	4,601	17,160	14,205	9,590	22,465
Kauai	12,505	6,856	21,525	17,315	10,260	24,605

NA Not available.

1/ Including married filing separately and heads of households.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual), and records.

Table 298.-- STATE INCOME TAX RESIDENT RETURNS ON INCOME RECEIVED DURING 1984, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income 2/ ($1,000)	Tax liability ($1,000)
All resident returns ...	422,245	7,604,199	4,980,484	387,300
Taxable resident returns	330,346	7,437,571	4,980,484	387,300
$1,000, under $5,000	41,115	139,277	57,548	2,181
$5,000, under $10,000	58,682	438,871	263,319	14,810
$10,000, under $20,000	91,424	1,328,938	900,006	61,252
$20,000, under $30,000	53,263	1,326,630	898,649	67,054
$30,000, under $40,000	36,671	1,268,148	864,197	67,647
$40,000, under $50,000	24,004	1,070,630	713,190	57,868
$50,000, under $75,000	19,757	1,157,399	795,427	68,380
$75,000, under $100,000	3,145	265,836	182,791	16,889
$100,000 and over	2,285	441,841	305,357	31,219
Nontaxable resident returns ..	91,899	166,628	...	...
Loss	2,364	(21,478)	...	...
Under $5,000	82,115	73,538	...	...
$5,000, under $10,000	4,447	30,475	...	...
$10,000 and over	2,973	62,615	...	...

1/ Total and subtotals exclude losses.

2/ Excludes zero bracket amount of $293,258,000. Conforms to taxable income as defined prior to 1982.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1984, Individuals, p. 29.

Table 299.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1984 AND 1985

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Source of revenue	Tax base		Tax collections	
	1984	1985	1984	1985
All sources	23,582,079	24,323,273	669,805	707,381
Sources taxed at 4 percent	15,792,041	16,752,875	631,682	670,115
Retailing	8,111,893	8,499,254	324,476	339,970
Services	2,368,415	2,481,669	94,737	99,267
Contracting	1,242,929	1,367,733	49,717	54,709
Theater, amusement, radio	153,723	154,830	6,149	6,193
Interest	207,430	206,256	8,297	8,250
Commissions	299,754	318,902	11,990	12,756
Hotel rentals	984,518	1,122,268	39,381	44,891
All other rentals	1,759,337	1,914,986	70,374	76,599
Use (4 percent)	354,619	355,439	14,185	14,218
All others	309,423	331,538	12,377	13,261
Sources taxed at other rates 1/	7,790,038	7,570,398	38,124	37,266
Insurance solicitors	236,086	167,438	354	251
Sugar processing	414,211	357,151	2,071	1,786
Pineapple canning 2/	198,266	115,754	991	579
Producing	242,641	262,791	1,213	1,314
Manufacturing	519,601	527,673	2,598	2,638
Wholesaling	4,025,324	4,095,220	20,127	20,476
Services (intermediary)	128,875	116,300	644	582
Use (1/2 percent)	2,025,034	1,928,071	10,125	9,640

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

2/ Decline after 1984 reflects in part the exemption of exported pineapple produced by a major company from the general excise tax, effective August 1, 1985, when it was granted foreign trade subzone status.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 300.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS ON ALCOHOL BEVERAGES, BY TYPE OF BEVERAGE: 1984

[$1,000]

Type of beverage	All levels	Federal 1/	State and county		
			Total	State 2/	County 3/
All types	25,239	6,708	18,531	15,369	3,162
Distilled spirits ..	10,748	5,689	5,059	4,196	863
Wine	2,933	858	2,075	1,721	354
Beer	11,558	161	11,397	9,452	1,945

1/ Mostly excise taxes, but also may include occupational, rectification, and wholesale taxes. Fiscal year data.

2/ Wholesale ad valorem liquor tax, retail and wholesale general excise tax, penalties and interest. Calendar year data. Data exclude revenues held in escrow pending court decision on dealers' challenge to State liquor law. Partly estimated.

3/ Mostly license fees. Fiscal year data.

Source: Distilled Spirits Council of the United States, Inc., 1984/1985 Public Revenues from Alcohol Beverages (July 1985), pp. 20-24 and 49.

Table 301.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1976 TO 1986

[Thousands of dollars. As of July 1, 1976 and January 1, 1977 and later years. Government parcels assessed at $1 beginning in 1983; for estimated value of such parcels in 1986, see table 304]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832
1983 ...	100	46,659,440	23,603,352	23,056,088	39,508,235
1984 ...	100	49,085,380	24,900,368	24,185,012	41,672,612
1985 ...	100	51,231,020	25,507,708	25,723,312	43,581,421
1986 ...	100	52,814,463	26,442,872	26,371,591	45,222,885

1/ Percent of fair market value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations & Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, & Exemptions" (annual, 1982 forward).

Table 302.-- REAL PROPERTY TAX VALUATIONS: 1984 TO 1986

[In thousands of dollars]

Subject	1984	1985	1986
Assessor's gross valuation 1/	49,085,380	51,231,020	52,814,463
Land	24,900,368	25,507,708	26,442,872
Improvement	24,185,012	25,723,312	26,371,591
Exemptions 1/	6,699,195	6,986,720	7,070,511
Assessor's net taxable valuation ..	42,386,185	44,244,300	45,743,952
Half of valuation on appeal	713,573	662,879	521,067
Number of appeals	5,523	3,355	3,562
Valuation for tax rate purposes ...	41,672,612	43,581,421	45,222,885
Land	22,618,164	23,226,482	24,183,369
Improvement	19,054,448	20,354,939	21,039,516
Amount to be raised by taxation 2/	301,257	324,090	334,281

1/ Government parcels assessed at $1; see table 304 for estimated value.

2/ For fiscal years beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions (annual).

Table 303.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1986

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	38,643,241	6,430,467	5,197,211	2,543,544
Land	19,431,767	3,028,412	2,719,410	1,263,283
Improvement	19,211,474	3,402,055	2,477,801	1,280,261
Exemptions 1/	5,515,407	543,765	735,066	276,273
Assessor's net taxable valuation .	33,127,834	5,886,702	4,462,145	2,267,271
Half of valuation on appeal	373,232	67,660	45,342	34,833
Number of appeals	1,482	526	808	746
Valuation for tax rate purposes ..	32,754,602	5,819,042	4,416,803	2,232,438
Land	17,659,239	2,832,483	2,527,830	1,163,817
Improvement	15,095,363	2,986,559	1,888,973	1,068,621
Amount to be raised by taxation 2/	244,866	32,528	40,144	16,743

1/ Government parcels assessed at $1; see table 304 for statewide data on actual estimated value.

2/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1986-1987 Tax Year, State of Hawaii (July 1986).

Table 304.-- REAL PROPERTY TAX EXEMPTIONS, BY TYPE: 1986

Type of exemption	Number	Amount 1/ ($1,000)
All exemptions	178,983	17,593,453
Federal government	415	2,360,136
State government	5,848	6,610,782
County government	3,500	1,496,830
Hawaiian Homes Commission	811	54,845
Homes--fee	117,090	3,400,282
Homes--leasehold	35,811	900,717
Churches	1,358	561,643
Government leases	429	198,160
Hospitals	71	313,793
Low-moderate income housing	73	312,929
Charitable organizations	531	346,566
Public utilities	776	319,037
Schools	130	314,417
All others	12,140	403,316

1/ Includes government parcels at actual value and exemptions on federal leases, if any.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates & Exemptions, 1986-1987 Tax Year, State of Hawaii (July 1986).

Table 305.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1986

[In thousands of dollars]

Land use class	Gross valuation, Jan. 1, 1986 1/			Amounts to be raised by taxation, fiscal 1986-87
	Total	Land	Improvement	
All classes	52,814,463	26,442,872	26,371,591	334,281
Improved residential ...	25,783,638	14,592,038	11,281,600	138,174
Apartment	8,226,967	2,340,042	5,886,925	49,701
Commercial	6,093,214	2,714,259	3,378,955	49,678
Industrial	3,797,427	2,430,689	1,366,738	30,700
Agricultural	2,898,044	1,975,760	922,284	20,872
Conservation	229,671	181,635	48,036	1,595
Hotel/resort	4,430,767	1,181,628	3,249,139	37,769
Unimproved residential .	1,264,735	1,026,821	237,914	5,792

1/ Government parcels assessed at $1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions, 1986-1987 Tax Year, State of Hawaii (July 1986).

Table 306.-- REAL PROPERTY TAX RATES, BY COUNTIES: FISCAL YEAR 1986-1987

[Dollars per $1,000 net taxable value]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	6.56	4.75	8.50	6.45
Unimproved residential	6.56	4.75	10.00	6.45
Apartment	6.56	4.75	10.00	8.70
Hotel/resort	10.71	7.00	10.00	8.70
Commercial	9.45	6.00	10.00	8.70
Industrial	9.45	6.00	10.00	8.70
Agricultural	9.00	4.75	10.00	8.70
Conservation	9.00	4.75	10.00	8.70
Improvement:				
Improved residential	6.56	4.75	8.50	5.81
Unimproved residential	6.56	4.75	8.50	5.81
Apartment	6.56	4.75	8.50	8.25
Hotel/resort	10.71	7.00	8.50	8.25
Commercial	9.45	6.00	8.50	8.25
Industrial	9.45	6.00	8.50	8.25
Agricultural	9.00	4.75	8.50	8.25
Conservation	9.00	4.75	8.50	8.25

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, & Exemptions, 1986-1987 Tax Year, State of Hawaii (July 1986).

Table 307.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1980

[Thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Amount	Fiscal year	Amount
1968	848,383	1975	2,060,344
1969	987,814	1976	2,162,221
1970	963,668	1977	2,065,800
1971	1,075,111	1978	2,507,095
1972	1,173,340	1979	2,659,230
1973	1,435,341	1980	3,151,277
1974	1,643,890		

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980).

Table 308.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES: FISCAL YEARS 1981 TO 1985

[Millions of dollars]

Type of expenditure	1981 1/	1982 1/	1983	1984	1985
All categories	3,811	3,506	4,055	4,232	4,568
Grants to State and local governments .	443	408	457	459	436
Salaries and wages	1,487	1,615	1,736	1,809	1,942
Direct payments for individuals	1,008	1,106	1,253	1,321	1,444
Procurement	857	358	535	577	672
Other programs	17	19	74	66	73
Department of Defense	2,223	1,932	2,198	2,324	2,553
Other federal agencies	1,588	1,573	1,857	1,908	2,015

1/ Revised from Data Book 1985, table 286.

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1985 (March 1986), pp. 1 and 33-36, and letter dated April 29, 1986.

Table 309.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTIES: FISCAL YEAR 1985

[Thousands of dollars]

County	All agencies	Department of Defense	All other agencies
State total 1/	4,575,478	2,551,638	2,023,840
City and County of Honolulu ..	3,989,585	2,499,695	1,489,890
Hawaii County	219,625	17,521	202,104
Kauai County	85,804	14,328	71,476
Maui County	175,646	20,094	155,552
State undistributed	104,817	-	104,817

1/ Figures differ somewhat from those in preceding table, because of treatment of Federal grants to State and local governments. In preceding table, figure represented actual expenditures; in this table, Federal grants generally represent obligations and include payments to State and local governments, and grants to nongovernmental recipients (see source, p. viii).

Source: U.S. Bureau of the Census, Consolidated Federal Funds Report, Fiscal Year 1985, Vol. I: County Areas (March 1986), pp. 14-15.

Table 310.-- STATE GENERAL OBLIGATION BOND DEBT: 1980 TO 1985

[In dollars. As of June 30]

Year	General obligation bond debt	Cash reserve for serial bonds	Net debt
1980	1,418,764,000	139,000	1,418,625,000
1981	1,331,326,266	139,000	1,331,187,266
1982	1,464,486,784	-	1,464,486,784
1983	1,590,350,534	-	1,590,350,534
1984	1,641,694,840	-	1,641,694,840
1985	1,697,635,620	-	1,697,635,620

Source: Hawaii State Department of Accounting and General Services, information submitted January 23, 1986.

Table 311.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1960 TO 1985

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1960	285.6	143.1	120.8	10.0	3.2	8.6
1961	306.8	145.4	138.1	12.1	3.0	8.2
1962	312.7	149.1	141.4	11.6	2.8	7.8
1963	386.5	194.6	168.2	13.8	2.6	7.4
1964	423.6	220.0	177.6	13.0	3.9	9.1
1965	454.1	244.5	184.1	12.3	3.6	9.6
1966	412.3	205.6	182.8	11.4	3.4	9.0
1967	472.9	262.4	188.2	10.6	3.2	8.4
1968	533.8	317.9	191.6	9.7	2.9	11.7
1969	631.3	423.1	185.8	11.0	8.8	2.7
1970	742.0	536.1	172.5	10.4	17.9	5.1
1971	925.5	679.3	198.9	25.4	17.1	4.9
1972	1,080.4	804.1	215.8	24.6	26.3	9.6
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0
1984	2,715.7	2,391.5	221.0	33.5	50.9	18.8
1985	3,131.5	2,621.2	404.0	30.8	56.7	18.8

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, *A Compendium of Government Finances in Hawaii, 1949-1968* (November 1969), p. 71, and *Government in Hawaii* (annual).

Table 312.-- GOVERNMENT WORKERS, BY LEVEL OF GOVERNMENT, CIVIL SERVICE STATUS, AND MEMBERSHIP IN STATE RETIREMENT SYSTEM: 1889 TO 1985

Year	Government workers 1/				State civil service workers 3/	State retirement system members 4/
	All levels	Federal	State 2/	County		
1889	(NA)	(NA)	1,796	-	-	-
1926	6,566	(NA)	(NA)	(NA)	(NA)	2,028
1940	22,136	11,139	6,245	4,752	2,616	8,352
1950	33,140	18,891	7,955	6,294	5,280	16,120
1960	49,510	27,010	14,620	7,880	6,790	24,092
1970	73,640	33,380	30,600	9,660	10,166	38,912
1980	89,050	30,000	45,150	13,900	17,327	48,868
1984	91,850	32,100	46,550	13,200	18,202	51,609
1985	93,300	32,400	47,400	13,500	18,472	51,767

NA Not available.

1/ As of August 31, 1889, Spring 1926, and annual averages thereafter.

2/ Kingdom of Hawaii for 1889, Territory of Hawaii for 1926-1950, and State of Hawaii, thereafter.

3/ December 31 through 1960 and June 30 thereafter. State or Territorial workers in civil service system. Data exclude county employees, also covered by civil service for much of this period. Coverage was granted to Territorial Board of Health and Honolulu Fire Department and Police Department employees in 1913 and was extended to most Territorial and county employees in 1939.

4/ June 30 through 1960 and March 31 thereafter. Includes State or Territorial employees, county employees, and inactive members (those no longer employed by the State, Territory, or counties who have remained in the System), but excludes pensioners. Pension plans were established for teachers in 1915 and police, fire, and band employees in 1917. The present Employees' Retirement System, open to all Territorial and county workers, was established in 1926.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1978), pp. 202-203 and 616-617; The State of Hawaii Data Book 1978, p. 158; Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978, as updated); Hawaii State Department of Personnel Services, Annual Report for 1980-1985; Employees' Retirement System of the State of Hawaii, 58th Annual Report, June 30, 1983, p. 19, as updated; Robert M. C. Littler, The Governance of Hawaii (Stanford University Press, 1929), pp. 74 and 118.

Table 313.-- STATE CIVIL SERVICE: 1984 TO 1986

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions]

Subject	1984	1985	1986
Civil service employees, June 30	18,202	18,472	18,411
Department of Education	3,875	4,024	3,998
Department of Health	4,729	4,747	4,636
Department of Social Services and Housing	2,472	2,551	2,705
Department of Transportation	1,913	1,895	1,864
University of Hawaii	1,562	1,563	1,539
All others	3,651	3,692	3,669
Separations	2,079	1,751	1,919
Promotions 1/	760	613	685
Transfers, demotions, and returns after promotions 1/	688	765	788
Classification actions processed	2,414	3,107	3,144
Applications received	27,084	24,681	24,521
Applicants screened	27,209	25,484	22,357
Applicants placed on eligible list	10,741	12,323	15,373
Vacancies filled by competitive and noncompetitive actions	2,269	2,034	2,160

1/ 1984 data revised from Data Book 1985, table 290.

Source: Hawaii State Department of Personnel Services, Annual Report, 1986, pp. 4, 6, 8, and 9.

Table 314.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS: 1984 TO 1986

[In dollars per month. As of July 1. Data refer to lowest and highest rates among six bargaining units and excluded managerial compensation plan employees classified under the salary range schedules]

Salary range	Lowest			Highest		
	1984	1985	1986	1984	1985 1/	1986
SR-4	804	933	933	1,299	1,360	1,520
SR-11	1,062	1,151	1,151	1,686	1,816	1,985
SR-21	1,598	1,668	1,668	2,632	2,859	3,002
SR-31/EM-8 ..	2,498	2,596	2,620	4,155	4,596	4,799

1/ Revised from *Data Book 1985*, table 292.

Source: Hawaii State Department of Personnel Services, salary schedules and salary conversion tables.

Table 315.-- SALARIES OF SELECTED GOVERNMENT OFFICIALS: 1926, 1976, AND 1986

[Annual rates, in dollars, as of January 1]

Government official	1926	1976	1986 1/
Governor	10,000	50,000	80,000
Lieutenant Governor 2/	5,400	45,000	76,000
Mayor, Honolulu	6,000	44,903	75,000
Mayor, Hawaii 3/	4,200	43,644	49,992
Mayor, Maui 3/	4,200	36,070	62,000
Mayor, Kauai 3/	3,600	34,000	49,920
Chief Justice, Supreme Court	10,500	47,500	80,000
Associate Justice, Supreme Court ...	10,000	45,000	78,500
President, University of Hawaii	10,000	45,000	95,000

1/ Includes retroactive raises approved May 12, 1986.

2/ Secretary in 1926.

3/ Chairman, Board of Supervisors, in 1926.

Source: Robert M. C. Littler, *The Governance of Hawaii* (1929), pp. 114, 117, 118, 189, and 204; *Hawaii Revised Statutes*; *SLH 1986*, Act 128; Salary Commission of the City and County of Honolulu, *Final Report and Salary Schedule*; and Hawaii, Maui, and Kauai County ordinances.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces. Further information appears in sections 1, 2, 6, 12, 13, 14, and 23.

There were approximately 58,600 officers and enlisted men (including 5,000 aboard ships homeported in Hawaii) and 66,200 military dependents in the Islands as of July 1, 1986. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for one-third of the current total. Almost 11,000 Hawaii residents were in the armed forces worldwide in 1986. The importance of national defense in Hawaii can be further measured by total expenditures ($2.0 billion), military prime contract awards ($626 million), civilian employment (20,750), veterans in civil life (102,000), military personnel receiving retired pay (10,000, receiving $12.1 million monthly), military-connected pupils in public schools (20,300), military housing (19,200 units), and land used by the armed forces (over 96,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on Military Personnel and Dependents in Hawaii. Other published sources include reports of the U.S. Department of Defense, U.S. Bureau of the Census, Administrator of Veterans Affairs, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, and Hawaii State Census Statistical Areas Committee. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 by the local commanding officers reporting to DPED. Historical Statistics of Hawaii, Section 26, includes series on the armed forces dating back to 1795. Section 12 of the Statistical Abstract of the United States: 1986 presents data on national defense and veterans affairs for other states and the entire nation.

Table 316 .-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1970 TO 1986

[As of June 30, unless otherwise specified. Based on home of record]

Year	Number	Year	Number	Year	Number
1970	15,331	1981	11,927	1984	11,466
1975	10,640	1982	11,926	1985	10,827
1980	11,851	1983	11,641	1986	10,882

Source: U.S. Department of Defense, Defense Manpower Data Center, records.

Table 317.-- DEPARTMENT OF DEFENSE PERSONNEL AND DEPENDENTS: 1980 TO 1985

[As of September 30]

Year	Active-duty shorebased military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel 3/
1980 ...	43,313	53,533	18,186
1981 ...	44,141	50,324	18,814
1982 ...	44,470	56,497	19,497
1983 ...	44,651	51,119	20,005
1984 ...	47,648	54,190	20,539
1985 ...	46,875	55,552	20,762

1/ Excludes those performing civilian functions, Navy personnel afloat unless temporarily shorebased, and all Coast Guard personnel.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

3/ Military functions only.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, Department of Defense Selected Manpower Statistics (annual).

Table 318.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1986

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1 ...	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1 ...	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1 ...	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1 ...	124,794	58,584	53,616	4,968	66,210	29,481

1/ Beginning in 1982, ship crews living ashore are included with the ashore total.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1986 (Statistical Report 192, September 29, 1986), table 1.

Table 319.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1986

[See headnote to preceding table]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Living ashore		Living aboard ship		
		In hsg. units	In barracks			
State total ..	58,584	37,168	16,448	4,968	66,210	29,481
By island:						
Oahu	58,314	36,989	16,361	4,964	65,864	29,371
Hawaii	84	55	27	2	161	23
Maui	25	23	-	2	37	14
Kauai	137	101	36	-	148	73
Kure Atoll	24	-	24	-	-	-
By service:						
Air Force	6,746	5,321	1,425	-	10,583	4,726
Army	17,047	11,071	5,976	-	23,007	9,742
Coast Guard	1,160	747	114	299	1,024	463
Marine Corps	10,778	5,323	4,254	1,201	9,047	4,115
Navy	22,853	14,706	4,679	3,468	22,549	10,435

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1986 (Statistical Report 192, September 29, 1986), table 2.

Table 320.-- NATIONAL GUARD STRENGTH: 1981 TO 1986

[Actual strength as of June 30]

Year	Total	Air National Guard	Army National Guard
1981	5,338	1,943	3,395
1982	5,720	2,022	3,698
1983	5,799	2,031	3,768
1984	5,866	2,073	3,793
1985	6,096	2,227	3,869
1986	5,882	2,197	3,685

Source: Hawaii State Department of Defense, Annual Report for years specified, and records.

Table 321 .-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SERVICE: SEPTEMBER 30, 1985

Category	All services	Army	Navy	Air Force	Other DoD
Total	68,232	23,816	34,973	9,323	120
Military personnel 1/ .	46,973	18,516	21,760	6,697	-
Civilian personnel 2/ .	21,259	5,300	13,213	2,626	120

Footnotes and source follow next table.

Table 322.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1985

[Do not add to totals. Hickam AFB data include Wheeler AFB personnel]

Installation or geographic area	Total DoD	Military personnel 1/	Civilian personnel 2/
State total	68,232	46,973	21,259
Aiea	967	734	233
Barbers Point NAS	2,430	1,974	456
Ford Island	439	397	42
Fort Shafter	1,988	-	1,988
Halawa Heights	350	310	40
Hickam AFB	8,874	6,559	2,315
Honolulu	2,353	1,727	626
Kaneohe	10,397	9,691	706
Kapalama	226	12	214
Kauai	213	130	83
Kunia	1,302	1,274	28
Lualualei	514	224	290
Pearl Harbor	18,349	7,354	10,995
Schofield Barracks	15,027	13,881	1,146
Tripler Army Medical Center	1,050	3	1,047
Wahiawa	1,056	863	193
Waialua	604	567	37
Wheeler AFB	1,593	1,096	497
Other	2,093	1,273	820

1/ Active duty.

2/ Direct hire.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1985, pp. 28-29; Pacific Air Forces Community Relations Office.

Table 323.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1980 TO 1985

Year	Total	Air Force	Army	Navy
1980	18,700	2,650	4,100	11,950
1981	19,400	2,600	4,300	12,500
1982	20,400	2,650	4,650	13,100
1983	20,850	2,650	4,850	13,350
1984	20,600	2,650	5,000	12,950
1985	20,750	2,650	5,400	12,700

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1986.

Table 324.-- MILITARY PRIME CONTRACT AWARDS, BY SERVICE: 1982 TO 1985

[In thousands of dollars. Fiscal years ended September 30. Net value of Department of Defense prime contracts over $25,000]

Fiscal year	Total	Army	Navy & Marine Corps	Air Force	Other defense activities
1982	500,609	80,661	103,827	35,279	280,842
1983	638,975	117,573	187,355	36,806	297,241
1984	536,735	185,074	158,068	52,719	140,874
1985	626,153	255,236	152,782	59,939	158,196

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Atlas/State Data Abstract for the United States, Fiscal Year 1985, p. 33.

Table 325.-- DEFENSE EXPENDITURES: 1975 TO 1985

[In thousands of dollars. Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1975	982,779	396,413	281,955	304,411
1976	1,034,226	420,051	301,347	312,828
1977	1,086,561	432,754	325,778	328,029
1978	1,155,517	465,449	354,530	335,538
1979	1,221,784	497,840	372,596	351,348
1980	1,317,402	533,691	418,759	364,952
1981	1,449,328	612,761	450,684	385,883
1982	1,693,410	716,841	508,569	468,000
1983	1,848,175	793,782	558,220	496,175
1984	1,867,189	828,787	582,531	455,872
1985 1/	1,965,430	839,851	611,437	514,138
SERVICE: 1985				
Air Force	201,026	109,391	36,927	54,707
Army	780,389	389,132	142,664	248,591
Coast Guard	28,743	21,804	4,009	2,929
Navy and Marine Corps 1/	955,272	319,524	427,837	207,911

1/ Military payroll partly estimated due to change in reporting metnod.

Source: Quarterly reports submitted to DPED by armed forces.

Table 326.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1985 AND 1986

[As of April 1]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1985	19,214	2,957	7,122	315	8,820
1986	19,210	2,953	7,122	315	8,820

Source: Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii, 1986 (Report CTC-66, July 14, 1986).

Table 327.-- VETERANS IN CIVIL LIFE: 1976 AND 1986

Period of service	September 30, 1976	September 30, 1986
Total veterans 1/	93,000	102,000
Wartime veterans 1/	81,000	81,000
Vietnam era	32,000	37,000
Korean conflict	21,000	21,000
World War II	32,000	33,000
World War I	1,000	(Z)
Peacetime veterans	12,000	21,000
Post-Vietnam era only 2/	(Z)	9,000
Between Korea and Vietnam only	12,000	11,000
Other peacetime veterans 3/	...	1,000

Z Under 500.

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

3/ Includes those who served only between World War I and World War II, and those who served only between World War II and the Korean conflict.

Source: Veterans Administration, Veteran Population (semi-annual report).

Table 328.-- VETERAN STATUS BY COUNTIES: 1980

Subject	State total 1/	Counties			
		Hawaii	Honolulu	Kauai	Maui
Male veterans	98,633	10,117	77,356	4,133	7,015
Percent of civilian males, 16 years and over	31.1	29.9	32.0	28.4	26.4
Female veterans	5,141	359	4,381	129	272
Percent of civilian females, 16 years and over	1.5	1.1	1.6	0.9	1.0

1/ Includes Kalawao County, not shown separately.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70 and 179.

Table 329.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1985

Service	Number of personnel		Monthly payment 2/ ($1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	11,221	10,342	12,071	1,167
Army	4,637	4,180	4,566	1,092
Navy	3,101	2,883	3,380	1,172
Marine Corps	784	703	909	1,293
Air Force	2,699	2,576	3,216	1,248

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, Office of the Actuary, Defense Manpower Data Center, FY 1985 DOD Statistical Report on the Military Retirement System (1986), p. 17.

Table 330.-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES: 1914 TO 1976

[Data refer to U.S. military personnel whose home state or pre-service residence of record was Hawaii]

War	Personnel serving	Battle deaths	Nonbattle deaths	Wounded
World War I 1/	9,800	102		(NA)
World War II	28,008	658	138	(NA)
Korean conflict	(NA)	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)

NA Not available.

1/ Data include nearly 200 Hawaii residents serving (and 22 dying) with the British armed forces, many prior to the U.S. entry into World War I. Of the 102 war casualties, only 14 occurred overseas prior to the armistice; 61 took place in Hawaii or North America or after the armistice, and the time or place of 27 is unknown.

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, July 1977 (Statistical Report 120, September 9, 1977), tables 6 and 7.

Section 11

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on United Way campaigns, foundations, and the quality of life. Related data are cited in Sections 9 and 13.

Total social welfare costs reached $294 million in fiscal 1985, compared with $122 million a decade earlier. About 57 percent of the 1985 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1985 was 60,000, or 5.7 percent of the resident population of the State. Over 60 percent of all public assistance payments and almost half of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was $368, or 34 percent more than in 1975. Participation in the food stamp program included 37,000 households and 99,000 persons. Among workers receiving unemployment compensation in 1985, weekly benefits averaged $134. About 129,000 Hawaii residents were receiving Social Security benefits in 1985, and about 94,000 were enrolled for Medicare. There were also 16,000 State and county government pensioners in 1984, with annual benefits of $136 million. Child adoptions in 1985 numbered 550. Sixty-eight foundations reported assets of $165 million when most recently surveyed. The United Way reported agency allocations of $8.6 million on Oahu and $1.7 million on the Neighbor Islands in 1985. A recent comparative study of the "quality of life" in 329 American metropolitan areas ranked Honolulu sixty-first.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 13 of the Statistical Abstract of the United States: 1986 presents comparable Mainland data.

Table 331.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1975 TO 1985, MONTHLY AVERAGES

[Years ended June 30]

Year	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,226	9,067	10,825	11,675	295.17	106.72
1977	36,534	72,054	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981	27,604	72,480	15,281	11,763	12,104	342.67	130.68
1982	26,130	68,835	8,124	11,629	12,228	355.42	135.05
1983	24,157	64,305	6,443	12,858	13,186	371.00	139.56
1984	23,378	62,430	6,586	12,642	12,939	369.92	138.72
1985	22,212	59,561	6,832	12,519	12,286	368.17	137.50
COUNTIES: 1985							
Hawaii ..	4,039	10,815	929	1,749	1,692	370.08	138.32
Maui	1,562	4,436	590	961	957	369.92	130.45
Honolulu	15,739	41,921	4,734	9,141	8,982	367.83	138.30
Kauai ...	872	2,390	579	667	656	363.25	132.78

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Data for 1976 and 1977 revised from Data Book 1985, table 308.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 332.-- INDIVIDUALS SERVED BY MAJOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING BY COUNTIES: 1975 TO 1985

[Monthly averages for fiscal years ended June 30]

Fiscal year	State total	Hawaii	Maui	Honolulu	Kauai
1975	59,909	8,426	5,462	43,489	2,532
1976	67,226	9,480	5,567	49,522	2,657
1977	72,054	9,682	5,302	54,384	2,686
1978	75,485	10,517	5,256	56,973	2,739
1979	72,928	10,024	5,016	55,208	2,680
1980	71,693	10,115	5,036	54,052	2,490
1981	72,480	10,470	5,227	54,300	2,483
1982	68,835	10,267	4,840	51,410	2,318
1983	64,305	10,300	4,407	47,277	2,322
1984	62,430	10,676	4,441	45,008	2,306
1985	59,561	10,815	4,436	41,921	2,390

Source: Hawaii State Department of Social Services and Housing, records.

Table 333.-- PERCENT OF RESIDENT POPULATION SERVED BY MAJOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1984 AND 1985

[Based on fiscal year program data and July population estimates]

Year	State	Hawaii	Maui	Honolulu	Kauai
1984	6.0	10.0	5.3	5.6	5.2
1985	5.7	9.9	5.2	5.1	5.3

Source: Hawaii State Department of Social Services and Housing, records; DPED, Statistical Report 190, table 5.

Table 334 .-- SOCIAL WELFARE COSTS: 1975 TO 1985

[Thousands of dollars. Years ended June 30]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227
1982	289,391	121,911	167,480	22,271	143,068	114,811	9,241
1983	303,782	133,498	170,284	26,616	157,996	111,185	7,985
1984	335,986	148,902	187,084	35,482	185,730	107,508	7,266
1985	294,406	127,052	167,354	33,604	145,559	103,611	11,632

Source: Hawaii State Department of Social Services and Housing, records.

Table 335.-- HOUSEHOLD INCOME IN 1979 FROM SOCIAL SECURITY AND PUBLIC ASSISTANCE: 1980

Subject	Social security income	Public assistance income
Households with income of specified type	61,473	25,926
Mean income from specified type	$4,016	$3,161
Mean total income	$22,703	$15,534

Source: U.S. Bureau of the Census, *1980 Census of Population, Detailed Population Characteristics, Hawaii*, PC80-1-D13 (October 1983), table 243.

Table 336.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1984 AND 1985

[Years ended June 30]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1984	1985	1984	1985	1984	1985
All programs	132,950	130,022	33,756	33,409	328	324
Old age assistance 1/ .	10,509	11,235	4,453	4,751	197	197
Aid to the blind 1/ ...	541	569	171	185	263	255
Aid to disabled 1/	16,879	18,720	5,449	5,892	258	265
Aid to families with dependent children 2/	84,362	79,483	17,327	16,410	405	403
Child welfare foster care	1,519	1,564	613	631	207	207
General assistance	19,140	18,451	5,743	5,540	277	277

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 337.-- PARTICIPATION IN FOOD STAMP PROGRAM: 1984 AND 1985

[Years ended June 30]

Subject	1984	1985
Households, total participating 1/	37,766	37,283
Public assistance recipients	19,163	18,377
Other participants 2/	18,603	18,906
Persons, total participating 1/	99,817	99,395
Public assistance recipients	55,512	53,364
Other participants 2/	44,304	46,031
Value of food stamps given to recipients ($1,000)	79,584	89,904

1/ Monthly averages.

2/ Not receiving public assistance (food stamp only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 338 .-- MEDICARE ENROLLMENT, 1984 AND 1985, AND BENEFIT PAYMENTS, 1985

Coverage	All persons enrolled, July 1		Persons 65 and over enrolled, July 1		Estimated benefit payments 1985 1/ ($1,000)
	1984	1985	1984	1985	
Hospital and/or medical insurance	97,499	102,269	89,862	94,459	194,297
Hospital insurance	94,838	99,341	87,201	91,531	122,683
Supplementary medical insurance	93,896	98,255	86,865	91,059	71,614
Hospital and medical insurance (both)	91,235	95,327	84,204	88,131	...

1/ Calendar year estimate. 1984 data not available.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Bureau of Data Management and Strategy, records.

Table 339.-- MEDICARE ENROLLMENT OF PERSONS 65 YEARS OLD AND OVER, BY SEX AND COUNTIES: JULY 1, 1985

[Persons enrolled with hospital and/or medical coverage]

County	Both sexes	Male	Female
State total	94,459	46,148	48,311
City and County of Honolulu	68,429	32,571	35,858
Other counties	25,934	13,538	12,396
Hawaii	12,007	6,268	5,739
Kalawao	92	49	43
Kauai	5,234	2,814	2,420
Maui	8,601	4,407	4,194
County not reported	96	39	57

Source: U.S. Bureau of the Census, Population Division, Population Estimates Branch, memorandum dated August 1, 1986.

Table 340.-- RETIREMENT, SURVIVOR AND DISABILITY INSURANCE (OASDI) BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT AND COUNTY: JUNE 1985

Type of benefit and county	Number of OASDI benefits	Amount of monthly benefits ($1,000)
Total	127,102	51,709
TYPE OF BENEFIT		
Retirement program:		
Retired workers 1/	82,000	37,780
Wives or husbands 1/	10,237	2,242
Children	5,272	880
Survivor program:		
Widows, widowers, or parents	12,739	5,010
Children	6,981	2,204
Disability program:		
Disabled workers	6,854	3,190
Wives or husbands	717	88
Children	2,302	313
Age 62 and over:		
Men	49,583	25,180
Women	53,031	19,596
COUNTY		
Hawaii	16,911	6,870
Honolulu	90,436	36,866
Kalawao	107	44
Kauai	7,276	2,904
Maui	12,372	5,022

1/ Includes special age 72 beneficiaries.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 341.-- SOCIAL SECURITY POPULATION AGE 65 AND OVER, BY SEX, AGE, AND COUNTY: JUNE 1984 AND 1985

[Persons covered by retirement and survivor insurance, including those in non-payment status]

Subject	1984	1985
Total	85,398	89,964
Sex:		
Male	42,606	44,528
Female	42,792	45,436
Age:		
65 to 69 years	30,881	32,513
70 to 74 years	23,289	24,480
75 to 79 years	15,144	16,081
80 to 84 years	9,255	9,648
85 to 89 years	4,498	4,796
90 to 94 years	1,729	1,820
95 years and over	602	626
County:		
Hawaii	11,206	11,649
Honolulu	61,341	64,885
Kalawao	98	89
Kauai	4,782	5,032
Maui	7,971	8,309

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 342 .-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1980 TO 1985

Year	Number of beneficiaries, December	Monthly payments, December ($1,000)	Annual payments ($1,000)
1980	113,538	33,078	365,861
1981	115,670	38,155	435,126
1982	118,690	43,029	498,496
1983	121,061	46,523	536,000
1984	125,012	50,529	578,000
1985	129,475	54,612	626,000

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 343.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1980 TO 1985

Year	Membership, 1/ March 31	Pensioners, March 31	Assets, 2/ June 30 ($1,000)	Total benefits paid 3/ ($1,000)	Average monthly pension 3/ (dollars)	Administration expenses 3/ (dollars)
1980 ..	48,868	12,052	1,301,853	78,416	390	932,899
1981 ..	49,426	13,012	1,474,543	94,345	416	1,069,419
1982 ..	49,806	13,787	1,668,028	104,935	437	1,373,452
1983 ..	51,578	14,755	1,935,832	124,784	466	1,272,181
1984 ..	51,609	15,548	2,235,686	135,632	491	1,250,890
1985 4/	51,767	16,438	2,326,594	378,087	521	2,292,754

1/ State and county employees. Includes former employees who have not withdrawn their contributions but excludes all pensioners.

2/ Book value.

3/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

4/ Benefits paid total includes refunds to members electing noncontributory retirement plan. Administration expenses total reflects Social Security sick leave recovery claims.

Source: Employees' Retirement System of the State of Hawaii, 58th Annual Report, June 30, 1983, p. 19, and records,.

Table 344.-- UNEMPLOYMENT INSURANCE: 1975 TO 1985

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	400,311	92	10,381	42	225.84
1980 ...	413,095	93	11,291	56	244.56
1981 ...	417,018	94	12,224	51	260.56
1982 ...	409,511	93	13,656	44	272.96
1983 ...	413,288	93	13,452	45	285.60
1984 ...	422,950	95	11,567	43	296.10
1985 ...	434,636	96	10,091	37	307.29

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9
1982 ...	77,788	169	124.34	14.8	29.6
1983 ...	70,392	178	123.22	15.8	34.0
1984 ...	70,914	188	135.72	14.8	29.0
1985 ...	62,123	194	134.03	14.6	29.0

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (August 1984), pp. 17, 19, 25, 37, 42, and 43, and records.

Table 345.-- CHILD ADOPTIONS: 1981 TO 1985

Type of adoption	1981	1982	1983	1984	1985
Total	659	603	582	548	550
By relatives	429	388	384	362	382
By nonrelatives	230	215	198	186	168
Placed by social agencies ...	129	127	149	145	121

Source: Hawaii State Department of Social Services and Housing, tabulations from SRS-NCSS-280 Adoption Card.

Table 346 .-- FOUNDATIONS: 1980-1982

[For definition and coverage, see Data Book 1984, table 306, headnote]

Asset level and name of foundation	Fiscal year ended	Assets ($1,000)	Grants made ($1,000)
All non-restricted foundations 1/	Mar. 31, 1980- Dec. 31, 1982	164,600	9,766
Foundations with assets of $10,000,000 or more:			
Anthony (Barbara Cox) Foundation	Dec. 31, 1981	21,690	107
Atherton Family Foundation	Dec. 31, 1982	28,227	1,434
Castle (Harold K. L.) Foundation	Dec. 31, 1981	30,364	952
Castle (Samuel N. and Mary) Foundation	Dec. 31, 1982	12,561	867
McInerny Foundation	Sept. 30, 1982	15,782	825

1/ Data limited to the 68 foundations open to grant seekers. Excludes 62 restricted foundations.

Source: Alu Like, A Guide to Charitable Trusts and Foundations in the State of Hawaii: 1984 Edition, (Honolulu, Alu Like, 1984), pp. 195-261.

Table 347.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1983 TO 1985

[Dollars]

Year	Five-island total 1/	Aloha United Way (Oahu)	Hawaii Island United Way	United Way of Kauai	Maui United Way	Friendly Isle United Fund
TOTAL REVENUES						
1983	11,167,554	9,267,635	737,921	329,755	788,104	44,139
1984	11,651,300	9,560,841	755,285	352,388	927,832	54,954
1985	11,868,630	9,764,131	774,077	349,709	933,932	46,781
CONTRIBUTIONS						
1983	10,974,515	9,133,386	710,113	326,427	760,450	44,139
1984	11,271,049	9,364,482	729,460	348,720	773,433	54,954
1985	11,517,052	9,574,380	754,473	336,281	805,137	46,781
TOTAL OUTLAYS						
1983	11,280,469	9,387,948	749,264	341,681	758,565	43,011
1984	11,294,455	9,382,437	766,213	359,515	732,509	53,781
1985	11,602,876	9,586,156	785,509	359,227	825,552	46,432
AGENCY ALLOCATIONS						
1983	10,115,540	8,490,278	632,779	299,354	650,118	43,011
1984	10,059,227	8,440,574	645,668	318,000	601,204	53,781
1985	10,306,787	8,628,763	658,529	317,250	655,813	46,432

1/ Revised from Data Book 1985, table 322, to include the island of Molokai.

Source: Aloha United Way, Annual Report (annual); Hawaii Island United Way, Inc., and Maui United Way, Financial Statements (annual), and records; United Way of Kauai and Friendly Isle United Fund, records.

Table 348.-- QUALITY OF LIFE INDEX RANKINGS, FOR HONOLULU AND MAUI: 1970 TO 1985

Area ranked and authority	No. of areas ranked	Local rank
Honolulu:		
Louis 1/	50	5
Midwest Research Institute 2/	65	31
University of Nebraska 3/	100	7
Boyer and Savageau 4/	277	28
Pierce 5/	277	47
Boyer and Savageau 6/	329	61
ZPG 7/	184	106-118 (tie)
Maui:		
Boyer and Savageau 8/	107	99

1/ Arthur M. Louis, "The Worst American City," Harper's Magazine, January 1975, pp. 67-71. Based on 1969-1974 data for the 50 largest U.S. cities (not SMSAs).

2/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for large SMSAs.

3/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

4/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Co., 1981), pp. 370 and 374. Based on SMSA data for late 1970s through 1980.

5/ Paper presented by Robert Pierce to Association of American Geographers in Washington, D.C., April 24, 1984; cited in Rick Carroll, "Most Livable? Honolulu rated 47th best city, based on 9 factors," Honolulu Advertiser, April 25, 1984, p. A-3. Based on data for SMSAs.

6/ Richard Boyer and David Savageau, Places Rated Almanac, 2nd ed. (Rand McNally and Co., 1985), p. 424. Based on SMSA data for late 1970s through 1984.

7/ Zero Population Growth, Inc., ZPG's 1985 Urban Stress Test (1985). Based on 1979-1985 data for large cities rather than SMSAs.

8/ Richard Boyer and David Savageau, Places Rated Retirement Guide (Rand McNally and Co., 1983), p. 173. Ratings based on suitability for retired persons.

Section 12

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by occupation, industry, class of worker, and place of work, wage rates, payrolls, hours, industrial safety, work disability, unionization, and strikes. Related series appear in Sections 3, 9, 10, and 19 through 23.

The civilian labor force averaged 481,000 in 1985; of this total, 454,000 persons were employed and 27,000 were unemployed and seeking work. The civilian jobcount rose from 381,000 in 1975 to 470,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) Areas with large concentrations of workers in 1980 included downtown Honolulu (46,000), Waikiki (30,000), and Pearl Harbor-Hickam (15,000). The unemployment rate averaged 5.6 percent in 1985, with island levels ranging from 5.1 to 18.5 percent. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include services (110,000 in 1985), retail trade (96,000), and government (93,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $17,300 in 1985, or 6.5 percent less than the 1975 average after adjustment for inflation. Average weekly hours in 1985 ranged from 31.3 (for retail trade) to 41.8 (for communication and utilities). Labor union membership was estimated at 157,000 in 1985. Work stoppages in 1985 involved 2,000 workers.

Analyzing labor force data is complicated by differences in concepts, coverage, definitions, timing, and estimating methods. Census statistics collected as of the last week in March 1980 differ from annual averages for calendar year 1980 or later periods, and jobcounts based on employers' reports of covered workers are seldom comparable to civilian employment totals derived from small household surveys.

Principal sources for the data on labor force, employment, place of work, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 14 of the Statistical Abstract of the United States: 1986.

Table 349 .-- LABOR FORCE STATUS, BY SEX: 1950 TO 1980

Sex and labor force status	1950 1/	1960	1970	1980
BOTH SEXES				
Persons 16 years and over	351,375	402,937	522,018	723,479
Labor force	207,952	263,450	344,269	494,223
Armed forces	22,856	47,255	49,785	58,443
Civilian labor force	185,096	216,195	294,484	435,780
Employed	167,571	207,456	285,556	415,181
Unemployed	17,525	8,739	8,928	20,599
Percent of civ. labor force	9.5	4.0	3.0	4.7
Not in labor force	143,423	139,487	177,749	229,256
MALE				
Persons 16 years and over	197,864	219,822	272,726	370,683
Labor force	157,088	186,507	222,221	290,420
Armed forces	22,572	46,626	48,860	54,032
Civilian labor force	134,516	139,881	173,361	236,388
Employed	120,972	135,481	168,940	225,331
Unemployed	13,544	4,400	4,421	11,057
Percent of civ. labor force	10.1	3.1	2.6	4.7
Not in labor force	40,776	33,315	50,505	80,263
FEMALE				
Persons 16 years and over	153,511	183,115	249,292	352,796
Labor force	50,864	76,943	122,048	203,803
Armed forces	284	629	925	4,411
Civilian labor force	50,580	76,314	121,123	199,392
Employed	46,599	71,975	116,616	189,850
Unemployed	3,981	4,339	4,507	9,542
Percent of civ. labor force	7.9	5.7	3.7	4.8
Not in labor force	102,647	106,172	127,244	148,993

1/ Data refer to persons 14 years and over.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Chracteristics, Hawaii, PC(1)-13C (1962), tables 53 and 54, and Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 115; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 53; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 350.-- LABOR FORCE STATUS, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Persons 16 years and over ..	723,479	57,205	574,903	144	28,629	52,598
Labor force	494,223	41,214	397,889	82	18,998	36,040
Percent of persons 16 years and over	68.3	61.3	69.2	56.9	66.4	68.5
Civilian labor force	435,780	41,006	339,863	82	18,789	36,040
Employed	415,181	38,150	324,113	82	18,223	34,613
Unemployed	20,599	2,856	15,750	-	566	1,427
Percent of civilian labor force	4.7	7.0	4.6	-	3.0	4.0
Not in labor force	229,256	25,991	177,014	62	9,631	16,558
Female, 16 years and over ..	352,796	33,160	279,711	56	13,871	25,998
Labor force	203,803	17,013	162,998	35	8,077	15,680
Percent of female, 16 years and over	57.8	51.3	58.3	62.5	58.2	60.3
Civilian labor force	199,392	17,007	158,618	35	8,052	15,680
Employed	189,850	15,875	151,089	35	7,756	15,095
Unemployed	9,542	1,132	7,529	-	296	585
Percent of civilian labor force	4.8	6.7	4.7	-	3.7	3.7
Not in labor force	148,993	16,147	116,713	21	5,794	10,318
Female, 16 years and over ..	352,796	33,160	279,711	56	13,871	25,998
With own children under 6 years .	62,606	6,679	48,648	-	2,632	4,647
In labor force	32,215	3,244	24,828	-	1,467	2,676
With own children 6 to 17 years only	65,359	5,661	52,415	-	2,681	4,602
In labor force	45,523	3,864	36,248	-	1,992	3,419

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC 80-1-C13 (June 1983), tables 67 and 176.

Table 351.-- LABOR FORCE STATUS, BY AGE AND SEX: 1980

Sex and age	Total	Armed forces	Civilian labor force			Not in labor force
			Total	Em-ployed	Unem-ployed	
Persons 16 years and over	723,479	58,443	435,780	415,181	20,599	229,256
Male	370,683	54,032	236,388	225,331	11,057	80,263
16 to 19 years	37,481	5,598	14,441	12,658	1,783	17,442
20 to 24 years	59,293	21,970	30,569	28,079	2,490	6,754
25 to 54 years	192,705	26,207	153,456	147,844	5,612	13,042
55 to 64 years	43,030	248	30,282	29,346	936	12,500
65 years and over	38,174	9	7,640	7,404	236	30,525
Female	352,796	4,411	199,392	189,850	9,542	148,993
16 to 19 years	32,403	411	13,288	11,734	1,554	18,704
20 to 24 years	46,694	1,937	29,581	27,514	2,067	15,176
25 to 54 years	192,675	2,033	132,002	126,889	5,113	58,640
55 to 64 years	43,233	30	21,109	20,483	626	22,094
65 years and over	37,791	-	3,412	3,230	182	34,379

Age	Percent of total population in labor force		Percent of civilian population in civilian labor force		Percent of civilian labor force unemployed	
	Male	Female	Male	Female	Male	Female
Persons 16 years and over	78.3	57.8	74.7	57.2	4.7	4.8
16 to 19 years	53.5	42.3	45.3	41.5	12.3	11.7
20 to 24 years	88.6	67.5	81.9	66.1	8.1	7.0
25 to 54 years	93.2	69.6	92.2	69.2	3.7	3.9
55 to 64 years	71.0	48.9	70.8	48.9	3.1	3.0
65 years and over	20.0	9.0	20.0	9.0	3.1	5.3

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C-13 (June 1983), table 67.

Table 352.-- LABOR FORCE STATUS AND WORKERS IN FAMILY IN 1979: 1980

Labor force status in 1979	Male	Female
Persons 16 years and over, in labor force in 1979 .	304,932	227,073
Worked in 1979	300,738	222,531
50 to 52 weeks	210,996	124,833
48 to 49 weeks	17,414	12,900
40 to 47 weeks	20,240	19,682
27 to 39 weeks	15,301	19,590
14 to 26 weeks	19,024	23,157
1 to 13 weeks	17,763	22,369
Usually worked 35 or more hours per week	257,445	157,939
50 to 52 weeks	194,164	103,250
27 to 49 weeks	41,341	33,504
1 to 26 weeks	21,940	21,185
With unemployment in 1979	41,669	38,585
Percent of those in labor force in 1979	13.7	17.0
Unemployed 1 to 4 weeks	12,611	15,156
Unemployed 5 to 14 weeks	13,509	11,914
Unemployed 15 or more weeks	15,549	11,515
Mean weeks of unemployment	14.9	12.7

Workers in family in 1979	The State	Oahu	Other islands
Families	227,974	178,516	49,458
No workers	21,137	15,152	5,985
1 worker	65,930	51,611	14,319
2 workers	99,415	78,501	20,914
3 or more workers	41,492	33,252	8,240
Married-couple families	188,933	147,829	41,104
No workers	14,266	9,857	4,409
1 worker	48,743	38,282	10,461
2 workers	89,474	70,542	18,932
Husband and wife worked	78,500	61,837	16,663
3 or more workers	36,450	29,148	7,302
Husband and wife worked	29,581	23,549	6,032
Female householder, no husband present	28,514	22,695	5,819
No workers	5,850	4,583	1,267
1 worker	12,538	9,871	2,667
2 workers	6,654	5,394	1,260
3 or more workers	3,472	2,847	625

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70.

Table 353.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1970 TO 1985

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1970	321,550	305,650	15,900	4.9
1971	336,800	313,450	23,350	6.9
1972	351,000	324,050	26,950	7.7
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	410,000	370,000	40,000	9.8
1977	418,000	388,000	31,000	7.3
1978	420,000	388,000	32,000	7.7
1979 1/ .	422,000	395,000	26,000	6.3
1980 1/ .	440,000	418,000	21,000	4.9
1981 1/ .	451,000	427,000	24,000	5.4
1982 1/ .	461,000	430,000	31,000	6.7
1983	472,000	442,000	30,000	6.5
1984 1/ .	472,000	445,000	27,000	5.6
1985	481,000	454,000	27,000	5.6

1/ Revised from Data Book 1985, table 329.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1986.

Table 354.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1975 TO 1985

[Data for 1980 and later years are not directly comparable to estimates for earlier years. Island data may not add exactly to State totals in preceding table]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1975	304,250	34,600	16,300	27,800	1,600	23,200	3,000
1976	324,800	37,050	17,750	30,400	1,700	25,600	3,100
1977	330,550	37,800	18,500	32,100	1,700	27,150	3,200
1978	330,650	37,600	18,450	33,300	1,800	27,850	3,600
1979	331,100	37,250	18,500	34,150	1,750	28,650	3,700
1980 1/ ...	338,350	43,550	19,550	37,550	1,300	33,900	2,350
1981 1/ ...	345,700	45,450	20,100	39,800	1,300	36,000	2,500
1982 1/ ...	350,100	47,200	20,850	42,900	1,350	38,950	2,600
1983 1/....	357,150	48,350	21,650	44,850	1,150	40,950	2,750
1984 1/ ...	357,100	48,650	21,300	44,950	1,150	41,250	2,550
1985	361,800	50,600	21,800	46,850	1,150	43,200	2,500
CIVILIAN EMPLOYMENT							
1975	280,050	31,150	14,800	25,050	1,400	21,100	2,550
1976	293,750	32,900	16,100	27,250	1,450	23,100	2,650
1977	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978	305,950	33,950	17,200	30,900	1,650	26,000	3,250
1979 1/....	311,050	34,350	17,500	32,100	1,650	27,100	3,300
1980 1/....	322,800	40,850	18,700	35,650	1,200	32,450	2,050
1981 1/ ...	328,500	42,150	18,900	37,450	1,150	34,150	2,150
1982 1/ ...	328,600	42,700	19,150	39,550	1,100	36,250	2,200
1983 1/....	336,550	44,050	20,000	41,450	1,050	38,150	2,200
1984	338,050	44,900	19,800	42,250	1,000	39,000	2,200
1985	343,300	46,300	20,300	44,100	950	40,950	2,200

Continued on next page.

Table 354.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1975 TO 1985 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1975	24,200	3,450	1,500	2,750	200	2,100	450
1976	31,000	4,150	1,650	3,150	200	2,500	450
1977	24,050	3,450	1,200	2,350	150	1,900	300
1978	24,700	3,650	1,200	2,400	200	1,850	400
1979	20,050	2,900	1,000	2,050	100	1,550	400
1980 1/ ..	15,550	2,700	850	1,900	100	1,500	350
1981 1/ ..	17,150	3,350	1,150	2,350	150	1,900	300
1982 1/ ..	21,500	4,500	1,700	3,300	250	2,700	400
1983 1/ ..	20,600	4,300	1,650	3,400	100	2,800	550
1984 1/ ..	19,100	3,750	1,500	2,700	150	2,200	350
1985	18,500	4,300	1,500	2,750	200	2,250	300
PERCENT UNEMPLOYED							
1975	8.0	9.9	9.1	9.8	11.3	9.0	15.7
1976	9.6	11.2	9.3	10.4	13.0	9.8	14.4
1977	7.3	9.1	6.4	7.3	8.0	6.9	10.0
1978	7.5	9.8	6.5	7.3	10.4	6.6	10.5
1979 1/ ..	6.1	7.8	5.3	6.0	5.4	5.5	10.7
1980 1/ ..	4.6	6.2	4.3	5.1	8.1	4.4	14.2
1981 1/ ..	5.0	7.3	5.8	5.9	10.6	5.2	12.9
1982 1/ ..	6.1	9.5	8.2	7.7	18.0	6.9	15.2
1983 1/ ..	5.8	8.9	7.7	7.6	9.0	6.8	19.4
1984 1/ ..	5.3	7.7	7.0	6.0	11.3	5.4	13.8
1985	5.1	8.5	6.8	5.9	18.5	5.2	11.8

1/ Revised from *Data Book 1985*, table 330.

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book* (March 1978), tables 2-8, as revised annually through April 1986.

Table 355.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: 1985

[Includes all eligible claimants who filed new claims for unemployment insurance benefits during the calendar year. Includes both intrastate and interstate claimants, with Hawaii as the liable state]

Subject	Number	Subject	Number
Total	39,307	Industry:	
		Agriculture	2,090
Age:		Construction, mining	5,824
Under 20 years	919	Manufacturing	4,235
20 to 29 years	13,545	Transportation	3,719
30 to 39 years	11,692	Communication, utilities	319
40 to 49 years	6,345	Wholesale trade	1,643
50 to 59 years	4,526	Eating, drinking places	3,148
60 years and over	2,033	Other retail trade	3,510
Unknown	247	Finance and related	1,987
		Hotel and related	2,666
Sex:		Other services	5,364
Male	22,828	Government	4,173
Female	16,479	Unknown	629
Education:		Occupation:	
8 years or less	3,113	Prof., tech., mgr.	4,512
9 to 12 years	21,188	Clerical	5,502
13 to 16 years	9,680	Sales	1,647
17 years or more	1,426	Service	5,169
Unknown	3,900	Farming	1,143
		Processing	359
Race:		Machine trades	791
Black	861	Benchwork	312
Chinese	1,634	Struct. work	2,251
Filipino	8,005	Miscellaneous	2,720
Hawaiian	3,957	Unknown	14,901
Japanese	5,557		
Spanish	272	Weeks compensated:	
White	11,562	0	9,909
Other	7,091	1 to 5	11,221
Unknown	368	6 to 10	5,679
		11 to 25	8,644
		26 or more	3,854

Continued on next page.

Table 355.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: 1985 - Con.

Subject	Number	Subject	Number
Amount of benefits:		Annual wages:	
Less than $500	18,434	Less than $5,000	7,373
$500 to $999	5,673	$5,000 to $9,999	11,683
$1,000 to $1,999	6,511	$10,000 to $14,999	8,888
$2,000 to $2,999	3,966	$15,000 to $19,999	5,396
$3,000 or more	4,723	$20,000 and more	5,947
		Unknown	20

Source: Hawaii State Department of Labor and Industrial Relations, Unemployed Claimants in Hawaii 1985 (May 1986).

Table 356.--LABOR FORCE STATUS OF THE CIVILIAN NONINSTITUTIONAL POPULATION 16 YEARS AND OVER: ANNUAL AVERAGES, 1985

[Numbers in thousands]

Labor force status	Persons 16 years and over			16 to 19 years (both sexes)
	Both sexes	Men	Women	
Civilian noninstitutional population	734	347	387	57
Civilian labor force	481	252	228	28
Percent of population	65.5	72.6	59.1	48.5
Employment	454	240	214	22
Percent of population	61.8	69.0	55.4	38.9
Unemployment	27	13	14	5
Rate 1/	5.6	5.0	6.3	19.8
Not in civilian labor force	253	95	159	29

1/ Percent of civilian labor force. The error ranges for these rates, at the 90-percent confidence interval, are: both sexes, 4.9-6.3; men, 4.1-5.9; women, 5.2-7.4; 16-19, 15.0-24.6.

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1985 (Bull. 2266, September 1986), p. 38.

Table 357.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1970 TO 1985

[Persons holding more than one job are counted in each position. As a result, these data differ from corresponding estimates of employment, reported elsewhere in this section. Active-duty armed forces are excluded, unless also employed in civilian jobs]

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1970	331,580	270,310	28,410	12,540	20,320
1971	339,070	276,260	29,000	12,960	20,840
1972	349,950	285,900	29,450	13,050	21,550
1973	365,050	298,900	30,150	13,600	22,250
1974	374,650	306,350	31,000	13,600	23,650
1975	380,900	308,550	32,350	14,550	25,400
1976	387,000	312,100	33,000	15,250	26,600
1977	398,600	319,900	34,100	15,900	28,450
1978	417,500	334,400	35,400	16,650	30,950
1979	434,450	348,150	36,300	17,200	32,650
1980 1/ .	448,150	357,900	38,200	18,400	33,850
1981 1/ .	449,900	357,350	39,050	18,300	35,150
1982 1/ .	446,050	352,150	39,050	18,300	36,600
1983 1/ .	453,750	357,100	39,850	18,900	37,850
1984 1/..	461,000	362,200	41,000	18,950	38,950
1985	470,000	367,950	42,100	19,400	40,600

1/ Revised from Data Book 1985, table 332.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1986; Labor Force Statistics, Bull. No. 70-F and 72-F.

Table 358.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1976 TO 1985

Industry	1976	1977	1978	1979	1980 1/
Nonagriculture, wage and salary	349,200	359,400	377,300	394,000	404,100
Contract construction	21,400	19,750	20,650	23,400	23,950
Manufacturing	23,400	23,200	23,700	23,900	23,350
Durable goods	4,550	4,600	4,700	4,800	4,700
Nondurable goods	18,800	18,600	19,000	19,100	18,650
Food processing	11,300	11,250	11,700	11,600	11,150
Pineapple	2,850	3,050	3,200	3,200	2,900
Sugar	4,350	3,950	4,150	3,950	3,900
Other	4,050	4,250	4,300	4,400	4,350
Textile, apparel	3,300	3,250	3,250	3,300	3,050
Printing, publishing	2,700	2,750	2,850	2,950	3,100
Other nondurables	1,550	1,350	1,200	1,250	1,350
Transp., commun., utilities ..	27,100	28,200	28,800	30,500	31,200
Transportation	18,200	19,200	19,950	21,200	21,500
Communication	6,400	6,500	6,350	6,750	7,150
Utilities	2,500	2,500	2,500	2,500	2,550
Trade	87,900	92,200	97,900	102,900	105,250
Wholesale	16,050	16,600	17,200	18,300	18,600
Retail	71,800	75,550	80,700	84,650	86,700
Finance, insur., real estate .	24,700	25,650	28,850	31,500	32,850
Services and miscellaneous ...	79,900	84,750	90,300	95,350	98,450
Hotels	20,900	22,100	22,850	24,100	24,900
Other services, misc.	59,000	62,650	67,450	71,250	73,550
Government	84,800	85,700	87,050	86,500	89,050
Federal	29,850	29,300	29,350	29,700	30,000
Air Force	3,200	3,050	2,850	2,750	2,650
Army	4,950	4,750	4,500	4,250	4,100
Navy	11,050	11,200	11,750	11,850	11,950
Other	10,600	10,250	10,250	10,800	11,250
State	41,350	42,650	43,350	43,300	45,150
Local	13,600	13,800	14,350	13,500	13,900
Agriculture, wage and salary ...	11,050	11,300	11,550	10,850	10,650
Sugar	5,050	5,000	4,900	5,000	4,950
Pineapple	2,200	2,400	2,550	2,550	2,500
Other	3,800	3,900	4,100	3,300	3,200
Nonagric., self-employed 2/	22,050	23,000	23,800	24,350	28,300
Agric., self-employed 3/	4,450	4,400	4,700	4,550	4,600
Labor disputes	250	500	150	700	500

Continued on next page.

Table 358.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1976 TO 1985 -- Con.

Industry	1981 1/	1982 1/	1983 1/	1984 1/	1985
Nonagriculture, wage and salary	404,800	399,400	406,200	412,650	423,100
Contract construction	21,900	17,850	17,800	15,800	16,950
Manufacturing	23,000	22,400	22,350	21,900	21,850
Durable goods	4,250	3,900	3,600	3,350	3,600
Nondurable goods	18,750	18,550	18,750	18,550	18,250
Food processing	11,150	11,150	11,250	10,750	9,950
Pineapple	2,800	2,750	2,550	2,150	1,900
Sugar	3,950	3,850	3,750	3,700	3,450
Other	4,350	4,550	4,900	4,900	4,600
Textile, apparel	2,950	2,850	2,900	2,950	3,350
Printing, publishing	3,150	3,150	3,150	3,350	3,550
Other nondurables	1,500	1,400	1,450	1,450	1,400
Transp., commun., utilities	31,900	31,200	31,100	31,950	33,350
Transportation	21,900	21,150	21,100	22,100	23,550
Communication	7,400	7,500	7,550	7,500	7,300
Utilities	2,600	2,550	2,450	2,400	2,450
Trade	105,450	104,850	106,850	111,400	115,500
Wholesale	18,700	18,500	18,400	18,900	19,500
Retail	86,750	86,300	88,450	92,450	96,000
Finance, insur., real estate	31,700	31,500	31,900	31,850	32,000
Services and miscellaneous	101,900	101,200	104,950	107,950	110,200
Hotels	24,800	26,500	27,000	28,250	28,050
Other services, misc.	77,100	74,700	77,900	79,700	82,150
Government	89,000	90,300	91,300	91,850	93,300
Federal	30,350	31,500	32,100	32,100	32,400
Air Force	2,600	2,650	2,650	2,650	2,650
Army	4,300	4,650	4,850	5,000	5,400
Navy	12,500	13,100	13,350	12,950	12,700
Other	10,900	11,100	11,250	11,550	11,600
State	45,250	45,650	45,900	46,550	47,400
Local	13,350	13,150	13,300	13,200	13,500
Agriculture, wage and salary	11,550	11,300	11,200	10,800	10,400
Sugar	5,200	4,700	4,500	4,300	4,100
Pineapple	2,450	2,450	2,300	2,100	1,950
Other	3,950	4,150	4,400	4,400	4,350
Nonagric., self-employed 2/	29,150	31,300	32,300	33,450	32,950
Agric., self-employed 3/	4,350	3,950	3,900	3,650	3,500
Labor disputes	50	100	150	450	100

Footnotes and source follow next table.

Table 359.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1985

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	423,100	340,800	32,000	16,250	34,100
Contract construction	16,950	13,800	1,300	600	1,250
Manufacturing	21,850	15,800	2,800	1,200	2,000
Durable goods	3,600	3,150	200	(Z)	200
Nondurable goods	18,250	12,600	2,650	1,200	1,800
Food processing	9,950	5,100	2,250	1,050	1,550
Textile, apparel	3,350	3,200	(NS)	(NS)	(NS)
Printing, publishing	3,550	3,100	(NS)	(NS)	(NS)
Other nondurables	1,400	1,250	(NS)	(NS)	(NS)
Transp., commun., utilities ..	33,350	27,250	2,000	1,850	2,250
Transportation	23,550	19,850	(NS)	(NS)	(NS)
Communication	7,300	5,700	(NS)	(NS)	(NS)
Utilities	2,450	1,700	(NS)	(NS)	(NS)
Trade	115,500	91,750	9,050	4,650	10,050
Wholesale	19,500	16,850	1,450	400	850
Retail	96,000	74,900	7,650	4,250	9,200
Finance, insur., real estate .	32,000	27,050	1,500	950	2,500
Services and miscellaneous ...	110,200	86,150	8,400	4,300	11,400
Hotels	28,050	16,050	3,550	2,100	6,350
Other services, misc.	82,150	70,100	4,850	2,200	5,050
Government	93,300	79,000	6,900	2,750	4,600
Federal	32,400	31,150	700	250	350
Air Force	2,650	2,550	(NS)	(NS)	(NS)
Army	5,400	5,300	(NS)	(NS)	(NS)
Navy	12,700	12,650	(NS)	(NS)	(NS)
Other	11,600	10,600	(NS)	(NS)	(NS)
State	47,400	38,250	4,450	1,650	3,050
Local	13,500	9,650	1,800	800	1,250
Agriculture, wage and salary ...	10,400	2,650	3,450	1,300	3,000
Sugar	4,100	600	1,250	1,150	1,150
Pineapple	1,950	800	-	-	1,150
Other	4,350	1,300	2,250	200	700
Nonagric., self-employed 2/	32,950	23,700	4,450	1,650	3,100
Agric., self-employed 3/	3,500	700	2,200	200	400
Labor disputes	100	100	(Z)	(Z)	(Z)

Z Fewer than 50.
NS Not shown separately.
1/ Revised from Data Book 1985, tables 333-334.
2/ Includes unpaid family workers and domestics.
3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1986.

Table 360.-- LABOR FORCE AND JOB ESTIMATES AND PROJECTIONS: 1980 TO 2005

[Thousands. Annual averages. Series M-F projections, recommended by DPED for State planning purposes]

Subject	Estimates		Projections			
	1980	1985	1990	1995	2000	2005
Civilian labor force 1/ (1,000)	439.0	481.0	533.4	575.6	607.9	627.7
Persons employed 1/	417.0	454.0	503.9	544.2	574.7	593.7
Total jobs (1,000)	499.5	528.4	572.3	613.4	644.5	663.9
Armed forces	58.4	58.5	58.4	58.4	58.4	58.4
Civilian jobs 1/	441.1	469.9	513.8	554.9	586.1	605.4
Self-employed	28.9	36.4	34.9	37.7	39.8	41.1
Wage and salary jobs by sector .	412.2	433.5	478.9	517.3	546.3	564.3
Agriculture	11.5	10.4	11.1	10.6	10.2	9.8
Food processing	11.5	10.0	11.0	10.8	10.5	10.3
Miscellaneous manufacturing .:	12.2	11.9	12.1	12.6	12.9	13.1
Construction	24.1	17.0	23.4	25.8	27.7	28.9
Transportation, communication, and utilities	30.9	33.4	35.5	38.3	40.2	40.6
Trade (exc. eating & drinking)	71.0	75.3	85.6	94.9	102.1	108.2
Eating and drinking places ...	34.5	40.2	43.6	47.8	50.6	51.9
Finance, insurance, and real estate	31.1	32.0	36.8	39.7	41.9	43.5
Hotels	24.8	28.1	31.8	35.0	36.9	37.1
Other services	71.7	82.2	88.4	96.8	103.5	108.0
State and local government ...	59.0	60.9	66.6	71.1	74.6	77.4
Federal government 1/	30.0	32.4	33.1	33.9	34.7	35.4

1/ Includes civilian employees of the armed forces.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1986, and Employment Series 202 quarterly reports; Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 14, and Military Personnel and Dependents in Hawaii, 1985 (Statistical Report 182, December 12, 1985).

Table 361.-- EMPLOYMENT BY INDUSTRY: 1980 AND 1970

Industry	1980	1970
Employed persons 16 years and over	415,181	285,556
Agriculture, forestry, and fisheries	14,560	13,161
Mining	233	322
Construction	29,888	26,637
Manufacturing	32,914	31,188
Nondurable goods	21,234	21,173
Durable goods	11,680	10,015
Transportation, communications, and other public utilities	36,478	26,403
Wholesale and retail trade	98,542	61,044
Finance, insurance, and real estate	31,648	14,356
Business and repair services	17,832	8,978
Personal services	31,288	20,301
Entertainment and recreation services	6,862	3,756
Professional and related services	73,363	48,310
Public administration	41,573	31,100

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 362.-- EMPLOYMENT BY CLASS OF WORKER: 1940 TO 1980

[Persons 14 years and over through 1960; 16 years and over, 1970 and 1980]

Class of worker	1940	1950	1960	1970	1980
All employed civilians	153,796	167,571	209,370	285,556	415,181
Private wage and salary workers	113,551	111,036	144,602	200,912	300,315
Government workers	18,553	34,400	46,078	70,547	90,401
Self-employed workers	15,967	19,192	17,009	12,832	22,965
Unpaid family workers	5,725	2,943	1,681	1,265	1,500

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (February 1962), table 56; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 56; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 67.

Table 363.-- OCCUPATION, BY SEX: 1980 AND 1970

Occupation	Both sexes		Females only	
	1980	1970	1980	1970
Employed persons 16 years and over ...	415,181	285,556	189,850	116,616
Managerial and professional specialty occupations ...	97,606	58,242	42,212	22,565
Executive, administrative, and managerial occupations ...	48,671	25,048	16,900	6,129
Professional specialty occupations ...	48,935	33,194	25,312	16,436
Technical, sales, and administrative support occupations ...	132,651	83,698	89,078	53,113
Technicians and related support occupation ...	11,982	7,442	4,501	2,027
Sales occupations ...	47,475	28,227	27,465	15,571
Administrative support occupations, including clerical ...	73,194	48,029	57,112	35,515
Service occupations ...	74,149	44,024	41,691	26,766
Private household occupations ...	1,547	2,131	1,376	2,024
Protective service occupations ...	7,578	4,304	855	143
Service occupations, except protective and household ...	65,024	37,589	39,460	24,599
Farming, forestry, and fishing occupations	14,154	12,572	2,785	2,118
Precision production, craft, and repair occupations ...	48,198	43,484	3,941	2,731
Operators, fabricators, and laborers ...	48,423	43,536	10,143	9,323
Machine operators, assemblers, and inspectors ...	14,000	13,589	5,730	5,743
Transportation and material moving occupations ...	16,430	13,767	1,132	472
Handlers, equipment cleaners, helpers, and laborers ...	17,993	16,180	3,281	3,108

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61.

Table 364.-- CLASS OF WORKER AND INDUSTRY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
CLASS OF WORKER						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Private wage and salary workers	300,315	27,226	231,719	24	13,885	27,461
Federal Government workers	32,244	909	30,207	3	508	617
State Government workers	43,814	4,945	34,268	48	1,715	2,838
Local Government workers	14,343	1,481	10,583	-	1,002	1,277
Self-employed workers	22,965	3,310	16,312	7	1,035	2,301
Unpaid family workers	1,500	279	1,024	-	78	119
INDUSTRY						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Agriculture, forestry, fisheries, and mining	14,793	4,272	5,662	1	1,762	3,096
Construction	29,888	3,477	21,423	-	1,621	3,367
Manufacturing	32,914	3,177	24,982	8	1,548	3,199
Nondurable goods	21,234	2,539	14,713	3	1,354	2,625
Durable goods	11,680	638	10,269	5	194	574
Transportation	25,392	1,524	21,174	2	1,015	1,677
Communications and other public utilities	11,086	812	8,771	-	668	835
Wholesale trade	16,089	1,477	13,286	7	462	857
Retail trade	82,453	6,683	66,358	4	3,089	6,319
Finance, insurance, and real estate	31,648	2,174	26,145	-	1,074	2,255
Business and repair services	17,832	1,251	14,726	-	527	1,328
Personal, entertainment, and recreation services	38,150	4,154	26,252	7	2,317	5,420
Professional and related services	73,363	6,378	59,927	6	2,713	4,339
Health services	22,390	1,700	18,429	4	873	1,384
Educational services	31,989	3,090	26,113	-	1,099	1,687
Other professional and related services	18,984	1,588	15,385	2	741	1,268
Public administration	41,573	2,771	35,407	47	1,427	1,921

Source: U.S. Bureau of the Census, _1980 Census of Population, General Social and Economic Characteristics, Hawaii_, PC80-1-C13 (June 1983), tables 67, 69, 176, and 178.

Table 365.-- OCCUPATION, BY COUNTIES: 1980

Occupation	The State	Counties				
		Hawaii	Honolulu	Kalawao	Kauai	Maui
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Managerial and professional specialty occupations	97,606	7,648	79,934	15	3,499	6,510
Executive, administrative, and managerial occupations	48,671	3,518	39,971	7	1,545	3,630
Professional specialty occupations	48,935	4,130	39,963	8	1,954	2,880
Technical, sales, and administrative support occupations	132,651	9,956	109,521	15	4,554	8,605
Technicians and related support occupations	11,982	864	9,915	-	614	589
Sales occupations	47,475	3,996	38,367	1	1,683	3,428
Administrative support occupations, including clerical	73,194	5,096	61,239	14	2,257	4,588
Service occupations	74,149	6,283	56,939	17	3,742	7,168
Private household occupations	1,547	134	1,116	-	135	162
Protective service occupations	7,578	609	6,010	2	388	569
Service occupations, except protective and household	65,024	5,540	49,813	15	3,219	6,437
Farming, forestry, and fishing occupations	14,154	3,927	5,838	8	1,509	2,872
Precision production, craft, and repair occupations	48,198	4,848	36,546	20	2,345	4,439
Operators, fabricators, and laborers	48,423	5,488	35,335	7	2,574	5,019
Machine operators, assemblers, and inspectors	14,000	1,308	10,887	5	518	1,282
Transportation and material moving occupations	16,430	2,123	11,274	-	1,054	1,979
Handlers, equipment cleaners, helpers, and laborers	17,993	2,057	13,174	2	1,002	1,758

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 68 and 177.

Table 366.-- OCCUPATION OF EMPLOYED CIVILIANS, BY SEX: ANNUAL AVERAGES, 1985

Occupation	Both sexes	Men	Women
All occupations (number in thousands)	454	240	214
Percent	100.0	100.0	100.0
Managerial and professional specialty:			
Executive, administrative, and managerial	11.7	12.6	10.6
Professional specialty	13.1	11.8	14.6
Technical, sales, and administrative support:			
Technicians and related support	3.1	3.9	2.3
Sales	12.9	11.0	15.0
Administrative support, including clerical	16.2	5.4	28.4
Service occupations	18.9	16.3	21.8
Precision production, craft, and repair	10.3	18.6	1.0
Operators, fabricators, and laborers:			
Machine operators, assemblers, and inspectors	2.8	2.8	2.7
Transportation and material moving	3.1	5.5	0.4
Handlers, equipment cleaners, helpers, and laborers	3.7	5.8	1.4
Farming, forestry, and fishing	4.1	6.2	1.8

Source: U.S. Bureau of Labor Statistics, Geographic Profile of Employment and Unemployment, 1985 (Bull. 2266, September 1986), pp. 58-59.

Table 367.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980

[Residence and labor force status as of April 1; place of work as of preceding week. Includes armed forces. For census tract maps, see pp. 22-23]

Census tract	Workers by place of --	
	Residence	Work 1/
County total	369,523	356,692
Honolulu CDP	183,677	246,969
1.02	962	250
1.03	5,482	532
1.04	3,515	110
1.05	2,860	1,117
2	2,579	455
3	2,841	561
4.01	1,391	174
4.02	2,077	201
5	2,320	3,594
6	945	750
7	1,829	439
8	2,175	911
9.01	1,423	418
9.02	2,087	218
9.03	1,469	557
10	1,792	128
11	1,552	256
12.01	1,575	1,152
12.02	1,828	59
13	2,300	1,735
14	1,428	146
15	1,986	422
16	2,298	577
17	1,263	1,644
18.01	571	4,570
18.02	1,725	1,009
19.01	571	11,832
19.02	3,014	2,596
20.01	1,318	8,457
20.02	1,895	1,547
21	2,057	2,220
22	4,004	586
23	3,123	638
24.01	1,517	64
24.02	1,737	730
25	2,145	1,416
Honolulu, con.:		
26	2,663	3,635
27.01	2,707	6,633
27.02	3,110	1,507
28	2,127	95
29	904	667
30	2,468	294
31.01	2,205	145
31.02	1,905	225
32	655	100
33	541	235
34.03	3,170	189
34.04	2,819	413
34.05	1,964	235
34.06	3,255	261
34.07	453	192
35	2,583	7,698
36.01	2,334	7,227
36.02	1,578	2,858
37	1,326	18,578
38	263	13,499
38.99	-	279
39	54	12,918
39.99	90	-
40	548	28,465
41	2,559	8,411
42	1,709	1,391
43	2,616	883
44	2,492	153
45	2,800	583
46	2,032	777
47	2,525	1,271
48	2,705	1,134
49	1,459	595
50	1,855	2,402
51	578	845
52	358	2,777
53	1,877	890
54	389	55

Continued on next page.

Table 367.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work 1/		Residence	Work 1/
Honolulu, con.:			Rest of Oahu, con.:		
55	821	509	80.01	648	424
56	2,527	1,399	80.02	1,507	1,000
57	748	9,295	80.03	1,321	251
57.99	540	12	80.05	3,433	146
58	1,349	2,354	80.06	3,002	226
59	1,414	6,348	80.07	3,168	251
59.99	...	28	81	1,179	2,603
60	2,391	3,534	81.99	-	-
61	1,408	203	82	-	-
62.01	1,990	336	83	4,400	619
62.02	494	221	84	3,020	1,686
63.01	1,502	290	85	1,608	3,865
63.02	711	141	86.01	4,008	260
64.01	910	-	86.02	1,749	3,185
64.02	2,282	177	86.99	...	-
65	1,665	78	87.01	3,120	383
66	1,177	3,032	87.02	1,573	1,324
67.01	3,933	4,104	87.03	1,207	1,880
67.02	1,075	135	88	2,103	932
68.01	10,152	302	89.01	3,314	1,361
68.02	2,154	72	89.02	12,709	2,472
68.03	-	6,990	89.03	3,226	947
69	1,280	100	90	1,174	9
70	1,771	163	91	1,476	223
71	939	11,805	92	3,412	1,682
72	1,071	14,656	93	1,702	11,323
114	...	-	94	2,320	(NA)
			95.01	1,044	229
Rest of Oahu	185,846	109,723	95.02	1,828	349
73	2,632	1,707	95.03	6,120	7,125
73.99	-	-	95.04	330	(NA)
74	2,098	9,538	95.05	1,069	(NA)
74.99	7,614	30	96.01	1,550	1,222
75.01	3,164	110	96.03	1,578	
75.02	323	66	96.04	1,179	
75.03	2,695	191	97	3,415	3,105
76	493	193	98	1,889	
77.01	2,142	1,018	99.01	2,396	864
77.02	2,470	159	99.02	942	1,167
78.01	6,730	(NA)	100	1,067	
78.02	6,567	5,217	101	1,912	(NA)

Continued on next page.

Table 367.-- PLACE OF RESIDENCE AND PLACE OF WORK OF EMPLOYED PERSON 16 YEARS AND OVER FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS: 1980 -- Con.

Census tract	Workers by place of --		Census tract	Workers by place of --	
	Residence	Work 1/		Residence	Work 1/
Rest of Oahu, con.:			Rest of Oahu, con.:		
102.01	1,526	(NA)	108.99	34	-
102.02	2,273	2,214	109.01	1,571	424
103.02	1,637	43	109.03	1,763	660
103.03	1,402	(NA)	109.04	1,636	390
103.04	4,678	(NA)	109.05	1,111	1,321
105.01	4,122	1,151	110	1,952	513
105.03	874	451	111.01	3,874	2,112
105.04	1,997	417	111.03	1,774	108
106.01	1,330	204	111.04	2,550	479
106.02	2,405	726	112.01	2,262	597
107.01	1,761	302	112.02	802	388
107.02	1,758	216	113	3,545	1,121
108	7,571	7,714	Unknown 2/	-	19,769

NA Not available.

1/ Tract data exclude residents who worked away from the City and County of Honolulu and nonresidents who worked within the area. Totals and subtotals (but not tract data) include imputed values for persons not reporting exact tract locations.

2/ Included in subtotals (see preceding footnote).

Source: U.S. Bureau of the Census, 1980 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC80-2-183 (1983), and Urban Transportation Planning Package, printouts (March 1985).

Table 368.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1975 TO 1985

Year	Number of employers, December	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1975	16,558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
1981	20,190	414,830	6,002,943	14,471
1982	20,259	408,791	6,281,953	15,367
1983	20,937	413,767	6,668,001	16,115
1984	21,288	421,821	7,050,512	16,714
1985	21,945	434,400	7,530,505	17,335
EXCLUDING GOVERNMENT				
1980	19,982	323,307	4,105,082	12,697
1981	20,184	325,897	4,423,850	13,574
1982	20,253	320,885	4,563,866	14,223
1983	20,931	325,650	4,848,497	14,889
1984	21,282	332,227	5,150,338	15,502
1985	21,939	343,400	5,518,268	16,070
PRIVATE NON-AGRICULTURAL				
1980	19,597	311,808	3,956,617	12,689
1981	19,799	314,016	4,261,467	13,571
1982	19,876	309,531	4,412,058	14,254
1983	20,515	314,142	4,679,895	14,897
1984	20,856	320,902	4,973,005	15,497
1985	21,510	332,092	5,344,772	16,094

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 369.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES: 1985

County or island	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	21,945	434,400	7,530,505	17,335
City and Co. of Honolulu .	16,499	344,083	6,157,079	17,894
Hawaii County	2,291	34,907	528,448	15,139
Maui County	2,123	37,450	573,186	15,305
Kauai County	1,038	17,961	271,792	15,132
EXCLUDING GOVERNMENT				
State total	21,939	343,400	5,518,268	16,070
City and Co. of Honolulu .	16,496	267,408	4,436,269	16,590
Hawaii County	2,288	27,963	388,584	13,896
Maui County	2,120	32,813	479,020	14,598
Kauai County	1,035	15,217	214,396	14,089

Source: Hawaii State Department of Labor and Industrial Relations, 1985 Employment and Payrolls in Hawaii (September 1986).

Table 370.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1985

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	21,945	434,400	7,530,505	17,335
Government	6	91,000	2,012,236	22,112
Federal	1	33,963	908,882	26,761
State	1	43,399	828,605	19,093
County	4	13,639	274,749	20,144
Private	21,939	343,400	5,518,268	16,070
Agriculture, forestry, fisheries ...	429	11,308	173,496	15,343
Sugar	11	3,079	56,217	18,258
Pineapple	5	2,056	33,219	16,157
Other	413	6,173	84,060	13,617
Mining and contract construction ...	1,703	17,206	468,509	27,229
Manufacturing	873	21,504	376,871	17,526
Sugar mills	11	2,706	56,175	20,759
Pineapple canning	2	2,016	29,387	14,577
Other food processing	194	4,914	82,886	16,867
Other manufacturing	666	11,868	208,423	17,562
Transportation	956	23,439	457,246	19,508
Communications	98	7,457	202,912	27,211
Utilities	43	2,469	86,709	35,119
Wholesale trade: Durable	939	9,438	208,279	22,068
Non-durable	987	10,177	180,230	17,710
Retail trade	4,928	96,207	1,011,834	10,517
Eating and drinking places	1,642	40,171	301,111	7,496
Other retail trade	3,286	56,036	710,723	12,683
Finance, insurance, real estate	2,961	31,990	590,734	18,466
Services	7,943	111,946	1,756,583	15,691
Hotels, rooming houses, etc.	198	28,947	393,701	13,601
Medical and other health services	1,774	21,667	473,723	21,864
Other services	5,971	61,332	889,159	14,497
Nonclassifiable establishments	79	261	4,866	18,642

Source: Hawaii State Department of Labor and Industrial Relations, 1985 Employment and Payrolls in Hawaii (September 1986), pp. 2-3.

Table 371.-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND CONSTANT DOLLARS, BY CLASS OF WORKER: 1975 AND 1985

Class of worker	1975: current dollars	1985		Percent change, 1975-1985	
		Current dollars	1975 dollars 1/	Current dollars	1975 dollars 1/
All classes ..	9,767	17,335	9,136	77.5	-6.5
Federal	14,004	26,761	14,104	91.1	0.7
State 2/	10,565	19,093	10,063	80.7	-4.8
County	11,048	20,144	10,617	82.3	-3.9
Private	9,108	16,070	8,469	76.4	-7.0

1/ Deflated by the all-items consumer price index (CPI-U) for Honolulu. The all-items index increased 89.7 percent during this period.

2/ Average for 1975 is understated because of erroneous inclusion of uncovered student workers, omitted in 1985 data.

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 372.-- NONGOVERNMENTAL REPORTING UNITS AND EMPLOYMENT, BY SIZE OF FIRM: 1985

Subject	All units	Employment-size class					
		1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 or more
Reporting units ..	21,939	11,561	4,553	2,765	1,849	685	526
Employment	352,014	23,648	30,042	37,346	55,585	46,715	158,678

Source: Hawaii State Department of Labor and Industrial Relations, 1985 Employment and Payrolls in Hawaii (September 1986), p. 16.

Table 373.-- ANNUAL WAGES PER EMPLOYEE, TOTAL AND PRIVATE: 1975 TO 1984

Year	Annual wages per employee (dollars)		Hawaii as percent of U.S.		Rank 1/	
	Total	Private only	Total	Private only	Total	Private only
1975	9,751	9,110	97.5	92.7	20	27
1976	10,309	9,586	96.2	91.0	24	29
1977	10,873	10,029	95.1	89.1	26	33
1978	11,607	10,809	95.8	89.7	29	33
1979	12,335	11,700	94.1	89.4	27	34
1980	13,491	12,695	94.2	88.6	27	37
1981	14,411	13,567	92.2	86.9	32	41
1982	15,353	14,202	92.0	85.5	31	42
1983	16,108	14,898	92.1	85.8	30	40
1984	16,701	15,456	91.0	85.0	31	41

1/ Among 50 States and D.C.

Source: U.S. Bureau of Labor Statistics, Employment and Wages, Annual Average (annual report). Percentages and rankings by the Hawaii State Department of Planning and Economic Development.

Table 374.--MINIMUM WAGE CHRONOLOGY: 1942 TO 1986

[Dollars per hour. As of July 1, unless otherwise specified]

Effective date	Oahu	Other islands	Effective date	State	Effective date	State
1942 1/ ..	0.25	0.20	1958	1.00	1975	2.40
1943	0.30	0.25	1962	1.15	1978	2.65
1945	0.40	0.40	1964 2/ ..	1.25	1979	2.90
1953	0.65	0.55	1969	1.40	1980	3.10
1955	0.75	0.65	1970	1.60	1981 3/ ..	3.35
1957	0.90	0.85	1974	2.00		

1/ At inception of minimum wage law, April 1, 1942.
2/ January 1.
3/ Currently in effect, July 1, 1986.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 375.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1980 TO 1985

Subject	1980	1981	1982	1983	1984	1985
Average weekly earnings (dollars)						
Contract construction	428.97	475.31	519.10	587.76	607.37	627.32
Manufacturing	258.17	289.90	301.68	317.68	318.14	323.51
Food and kindred products ..	238.26	274.31	281.86	291.65	292.98	303.32
Communication and utilities ..	421.16	433.70	486.41	486.22	512.09	542.15
Trade 1/	184.82	198.99	214.14	225.12	225.72	228.72
Wholesale trade	252.50	275.88	290.67	302.13	309.75	311.04
Retail trade 1/	162.30	174.27	189.95	199.69	198.13	200.95
Banking & credit agencies 2/..	185.58	212.64	222.49	237.73	237.78	267.80
Hotels	173.72	193.64	208.98	222.95	234.57	243.42
Average weekly hours						
Contract construction	36.2	36.2	35.8	37.2	36.9	36.6
Manufacturing	37.8	38.5	37.9	38.6	38.1	37.4
Food and kindred products ..	37.7	39.3	38.4	39.2	38.0	36.9
Communication and utilities ..	44.9	43.5	43.9	41.7	41.0	41.8
Trade 1/	33.3	33.0	33.2	33.4	33.0	33.1
Wholesale trade	38.2	38.0	37.7	38.1	38.1	38.4
Retail trade 1/	31.7	31.4	31.8	31.9	31.3	31.3
Banking & credit agencies 2/..	...	...	...	...	38.6	38.7
Hotels	31.3	32.6	32.5	32.5	33.8	33.3
Average hourly earnings (dollars)						
Contract construction	11.85	13.13	14.50	15.80	16.46	17.14
Manufacturing	6.83	7.53	7.96	8.23	8.35	8.65
Food and kindred products ..	6.32	6.98	7.34	7.44	7.71	8.22
Communication and utilities ..	9.38	9.97	11.08	11.66	12.49	12.97
Trade 1/	5.55	6.03	6.45	6.74	6.84	6.91
Wholesale trade	6.61	7.26	7.71	7.93	8.13	8.10
Retail trade 1/	5.12	5.55	5.97	6.26	6.33	6.42
Banking & credit agencies 2/..	...	...	...	...	6.16	6.92
Hotels	5.55	5.94	6.43	6.86	6.94	7.31

1/ Excludes eating and drinking establishments. 1982 data revised from Data Book 1985, table 350.

2/ Designated "Finance" before 1982.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised April 1986.

Table 376.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1981 TO 1986

Job classification	1981	1982	1983	1984	1985	1986
MONTHLY RATES						
Junior typist	839	903	975	1,013	1,036	1,084
Clerk-stenographer	1,085	1,194	1,250	1,296	1,384	1,485
Secretary	1,128	1,199	1,256	1,341	1,407	1,461
Data entry operator	967	1,004	1,072	1,134	1,139	1,194
Bookkeeper, full-charge	1,395	1,453	1,580	1,647	1,707	1,794
Engineering drafting technician	1,470	1,648	1,804	1,898	1,952	1,891
Hospital attendant	847	939	1,018	1,057	1,101	1,135
Staff nurse	1,492	1,669	1,875	1,978	2,081	2,159
HOURLY RATES						
Housekeeper	4.808	5.193	5.580	5.806	6.078	6.412
Cook, general	7.162	7.505	8.048	8.308	8.626	8.950
Waiter/waitress	3.312	3.377	3.483	3.586	3.676	3.846
Laborer (light)	6.008	6.360	6.506	6.688	6.959	7.187
Carpenter (maintenance)	8.521	9.075	9.362	9.769	10.139	10.405
Electrician (maintenance) ...	9.407	10.327	10.745	11.243	11.529	12.191
Automotive mechanic	9.077	9.543	9.697	10.152	10.191	10.753
Truck driver (1.5-5 tons) ...	7.162	7.708	8.288	8.576	8.853	8.734

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 377.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY, BY COUNTIES OR ISLANDS: 1986

[In dollars]

Job classification and year	State average	Kauai	Oahu	Maui County	Hawaii County
MONTHLY RATES					
Junior typist	1,084	...	1,074	...	...
Clerk-stenographer	1,485	...	1,460	...	...
Secretary	1,461	1,448	1,456	1,572	1,398
Data entry operator	1,194	1,342	1,183	...	1,280
Bookkeeper, full-charge	1,794	...	1,727	...	...
Engineering drafting technician	1,891	...	1,857	...	...
Hospital attendant	1,135	1,107	1,155	1,153	1,033
Staff nurse	2,159	2,183	2,161	2,122	...
HOURLY RATES					
Housekeeper	6.412	6.470	6.439	6.279	6.293
Cook, general	8.950	9.591	8.735	9.676	9.279
Waiter/waitress	3.846	4.043	3.818	3.865	3.991
Laborer (light)	7.187	7.314	7.266	7.192	6.710
Carpenter (maintenance)	10.405	10.077	10.888	10.088	9.399
Electrician (maintenance) ..	12.191	11.484	13.062	10.618	12.163
Automotive mechanic	10.753	10.029	11.718	10.254	10.033
Truck driver (1.5-5 tons) ..	8.734	...	9.545	8.158	7.410

Source: Hawaii Employers Council, Pay Rates in Hawaii (Research Report No. 2234, August 1986).

Table 378.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1975 TO 1985

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1975	9,425	7,607	9,478	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,495	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,285	5,250	123
1980	5,633	5,211	5,196	4,956	95
1981	5,619	5,485	4,552	4,396	80
1982	5,372	5,372	5,259	4,848	90
1983	4,414	4,414	4,891	4,659	106
1984	4,123	4,123	4,242	4,219	102
1985	4,039	4,039	4,034	3,993	99

1/ Interstate liable initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (August 1984), p. 27 and p. 48; and records.

Table 379.-- WORK DISABILITY STATUS OF CIVILIANS 18 TO 64 YEARS OLD, BY SELECTED CHARACTERISTICS AND SEX: 1980

[Noninstitutional population only]

Characteristic	With no work disability		With a work disability			
			Not prevented from working		Prevented from working	
	Male	Female	Male	Female	Male	Female
Total	240,362	276,721	11,422	8,167	7,796	8,460
Age:						
18 to 34 years old .	119,684	141,698	4,316	3,058	1,739	1,677
35 to 54 years old .	84,246	97,609	4,554	3,165	2,523	3,165
55 to 64 years old .	36,432	37,414	2,552	1,944	3,534	3,618
High school graduates	196,201	224,021	8,404	5,770	3,967	4,099
Labor force status:						
Civilian labor force	213,904	186,044	9,764	5,091	-	-
Employed	205,090	177,834	8,588	4,635	-	-
Unemployed	8,814	8,210	1,176	456	-	-
Not in labor force .	26,458	90,677	1,658	3,076	7,796	8,460
Income in 1979:						
With income	230,470	221,878	10,915	6,637	7,036	5,711
Median income	$14,541	$7,571	$10,927	$5,394	$5,813	$3,391
Below poverty level ..	14,617	24,682	1,407	1,233	1,700	2,119

Source: U.S. Bureau of the Census, 1980 Census of Population, Selected Characteristics of Persons With a Work Disability by State: 1980, PC80-S1-20 (November 1985), pp. 58-59.

Table 380.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1983 AND 1984

[Data exclude agricultural employers with fewer than 11 employees]

Subject	1983: total	1984		
		Total	Injuries	Illnesses
Recordable cases	27,248	25,999	25,560	439
Lost workday cases	14,529	14,058	13,893	165
Lost workdays	226,697	220,294	215,801	4,493
Per lost workday case	16	16	16	27
Nonfatal cases without lost workdays.	12,690	11,930	11,660	270
Incidence per 100 full-time workers	10.6	10.0	9.8	0.2
Agriculture	19.6	18.3	18.1	0.2
Mining	3.9	3.6	3.6	-
Construction	23.0	21.5	21.5	0.2
Manufacturing	15.0	13.5	13.3	0.2
Transportation, public utilities	12.7	11.1	11.0	0.2
Wholesale and retail trade	9.7	9.0	8.9	0.1
Finance, insurance, real estate	4.0	4.3	4.3	0.1
Services	8.9	9.1	8.8	0.2

Source: Hawaii State Department of Labor and Industrial Relations, 1984 Occupational Injuries and Illnesses Survey, State of Hawaii, p. 4.

Table 381.-- INDUSTRIAL ACCIDENTS, DEATHS, AND COMPENSATION COSTS: 1980 TO 1985

Year	Accidents		Deaths		Compensation costs ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1980	47,725	62.01	49	5.1	55,331
1981	44,320	57.50	36	3.7	66,950
1982	40,521	53.19	47	4.7	90,778
1983	39,013	51.05	48	4.7	103,338
1984	38,755	49.87	35	3.4	122,454
1985	37,940	47.37	49	4.7	136,837

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population, July 1.

Source: Hawaii State Department of Labor and Industrial Relations, Work Injury Statistics (annual), Employment and Payrolls in Hawaii (annual), and rate calculations by Hawaii State Department of Planning and Economic Development.

Table 382.-- LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1985

Subject	Total	AFL-CIO affiliated	Independent
Unions and associations ...	82	56	26
Membership 1/	157,000	104,000	53,000

1/ Data exclude 12 unions and associations not reporting membership.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Organizations & Affiliates, 1986 (December 1985).

Table 383.-- COLLECTIVE BARGAINING AGREEMENTS: 1965 TO 1986

[Covers collective bargaining agreements subject to wage negotiations]

Year	Number of agreements	Workers covered		Duration over 2 years (percent)	
		Total	Per agreement	Agreements	Workers
1965	309	31,500	102	74.4	38.2
1966	277	23,800	86	45.5	26.7
1967	257	15,900	62	83.7	77.5
1968	172	15,400	90	77.3	62.9
1969	296	19,100	65	90.2	82.0
1970	190	14,900	78	91.1	85.1
1971	151	9,800	65	88.8	91.4
1972	511	47,100	92	90.6	81.8
1973	390	28,000	72	80.2	48.9
1974	223	34,700	156	65.9	54.3
1975	1,265	36,100	29	87.3	86.8
1976	380	57,450	151	54.0	55.8
1977	2,255	87,350	39	93.2	42.9
1978	967	29,500	31	90.9	79.3
1979	312	61,600	198	79.8	18.1
1980	2,298	49,900	22	97.0	67.8
1981	267	53,700	201	83.5	21.0
1982	379	27,400	72	84.4	65.9
1983	1,019	68,000	67	90.3	20.4
1984	901	26,200	29	93.7	76.7
1985	350	58,450	167	74.3	11.7
1986 1/ ..	138	13,550	98	60.2	44.1

1/ Scheduled.

Source: Helene S. Tanimoto, Duration of Collective Bargaining Agreements in Hawaii, 1986 (University of Hawaii at Manoa, Industrial Relations Center, Occasional Publication No. 153, January 1986).

Table 384.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1983 TO 1985

[As of December 31]

Jurisdiction or unit	1983	1984	1985
Total	42,296	42,171	42,525
Employing jurisdiction:			
State of Hawaii	18,791	18,597	18,820
City and County of Honolulu	7,439	7,471	7,366
County of Hawaii	1,316	1,319	1,338
County of Maui	962	994	988
County of Kauai	664	682	674
Dept. of Education	9,561	9,582	9,738
University of Hawaii	3,563	3,526	3,601
Bargaining unit:			
1 Nonsupervisory blue collar	7,697	7,683	7,681
2 Supervisory blue collar	754	764	745
3 Nonsupervisory white collar	9,358	9,500	9,395
4 Supervisory white collar	505	521	506
5 Teachers, Dept. of Education	9,009	9,044	9,185
6 Educational officers, DOE	552	538	553
7 University faculty	2,772	2,719	2,768
8 University personnel, exc. faculty	791	807	833
9 Registered nurses	785	777	739
10 Nonprofessional hospital workers	1,959	1,956	1,997
11 Firefighters	1,508	1,509	1,505
12 Police officers	2,109	2,143	2,123
13 Professional and scientific	4,497	4,210	4,495

Source: Hawaii Labor Relations Board (formerly Hawaii Public Relations Board), HLRB Information Bulletin, No. 23, March 4, 1986, and earlier issues.

Table 385.-- WORK STOPPAGES: 1980 TO 1985

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Beginning with 1982, these data are limited to stoppages begun or in progress during the week containing the 12th of each month during the year]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1980	9	6,886	138,490
1981	9	890	8,650
1982	7	911	14,480
1983	7	2,838	44,411
1984	6	2,063	123,486
1985	9	2,032	35,544

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

Table 386.-- WORK STOPPAGES INVOLVING 1,000 OR MORE WORKERS: 1982 TO 1985

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
1982	-	-	-	0
1983	1	2,800	5,600	0.01
1984	1	1,000	70,000	0.01
1985	1	1,000	11,000	0.01

1/ Workers counted more than once if involved in more than one stoppage during year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Section 13

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the state income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, income by industry, personal, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 9, 12, and 22; on industrial payrolls, in Sections 12, 15, and 20 through 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 10 and 11; on taxable income, in Section 9.

Gross state product in 1985 exceeded $16 billion, or more than double the 1965 total after adjustment for inflation. The major sources of outside income to Hawaii in 1985 were defense expenditures ($1.95 billion), pineapple production ($222 million), sugar production ($341 million), and visitor expenditures ($4.9 billion). Personal income in 1985 was $14.6 billion, compared with $6.2 billion only ten years earlier, and per capita personal income was $13,800, almost twice the 1975 level. The per capita figure for Hawaii was slightly less than the national average, and thus failed to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1984, was $32,800; for unrelated individuals, the median was $12,300. The official poverty threshold for a 4-person family in Hawaii was set in February 1986 at $12,650. The most recent family expenditure survey, taken in 1982 and 1983, reported that the largest items in the family budget on Oahu were housing (accounting for 27.5 percent of total spending), food (18.4 percent) and transportation (18.2 percent). Top wealthholders in 1982 included 14,000 persons with assets of $300,000 or more and 800 millionaires.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Statistics Service, Hawaii State Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1986, Section 15.

Table 387.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1960 TO 1985

[In millions of dollars]

Year	Total for four major industries	Value of production		Defense expenditures 2/	Visitor expenditures 3/
		Raw sugar and molasses 1/	Fresh and processed pineapple		
1960 ...	720	118.4	119.4	351.4	131
1961 ...	771	136.5	117.5	379.9	137
1962 ...	766	149.3	115.0	348.0	154
1963 ...	839	181.7	123.7	347.5	186
1964 ...	879	154.6	126.9	392.6	205
1965 ...	948	165.7	126.7	430.2	225
1966 ...	1,076	179.6	127.7	488.4	280
1967 ...	1,255	180.3	133.3	561.4	380
1968 ...	1,331	189.1	127.5	574.6	440
1969 ...	1,480	179.0	125.4	625.9	550
1970 ...	1,561	187.8	138.6	639.4	595
1971 ...	1,758	202.9	141.4	708.8	705
1972 ...	1,914	184.7	145.4	744.2	840
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200
1982 ...	5,951	351.5	206.0	1,693.4	3,700
1983 ...	6,451	410.2	219.0	1,848.2	3,974
1984 ...	7,092	393.0	249.6	1,867.2	4,582
1985 ...	7,415	340.8	222.5	1,951.8	4,900

1/ Excludes government sugar support payments.

2/ Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts.

3/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1985 Annual Research Report, table 1.

Table 388.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1985

Year	Gross state product (thousands of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,415,074	2,221,200	2,338	3,669
1959	1,572,404	2,331,300	2,528	3,748
1960	1,804,679	2,626,400	2,813	4,094
1961	1,885,624	2,686,600	2,863	4,079
1962	1,964,798	2,739,600	2,875	4,008
1963	2,100,744	2,803,200	3,079	4,109
1964	2,301,041	3,076,400	3,288	4,396
1965	2,530,272	3,370,500	3,595	4,789
1966	2,771,021	3,560,800	3,901	5,013
1967	2,939,651	3,717,700	4,138	5,145
1968	3,337,431	3,957,500	4,544	5,388
1969	3,954,053	4,460,500	5,271	5,946
1970	4,426,751	4,796,500	5,737	6,216
1971	4,769,443	4,919,000	5,950	6,136
1972	5,298,400	5,298,400	6,397	6,397
1973	6,002,893	5,906,000	7,049	6,935
1974	6,903,354	6,238,100	7,953	7,187
1975	7,396,407	6,324,800	8,347	7,137
1976	7,924,626	6,627,300	8,764	7,330
1977	8,600,146	6,907,400	9,366	7,522
1978	9,630,295	7,160,200	10,338	7,686
1979	10,923,081	7,446,700	11,458	7,811
1980	12,200,214	7,523,100	12,5[illegible]2	7,765
1981	13,003,595	7,294,900	13,261	7,440
1982	13,574,374	6,856,900	13,604	6,872
1983	14,835,900	7,021,200	14,552	6,887
1984	15,710,800	7,027,300	15,147	6,775
1985	16,678,900	7,119,700	15,826	6,758

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1983 (1985) for 1958 to 1968, pp. 20-25, and unpublished DPED estimates for 1969 to 1985.

Table 389.-- EXPENDITURES ON GROSS STATE PRODUCT: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Gross state product	14,835.9	15,710.9	16,678.8
Personal consumption expenditures 2/	8,162.8	8,757.1	9,506.2
Food, alcoholic beverages and tobacco	3,147.7	3,353.8	3,630.2
Clothing, accessories and jewelry	878.4	915.8	1,038.4
Personal care	132.9	143.5	152.1
Housing	2,907.4	3,156.3	3,422.3
Household operation	947.1	1,095.6	1,093.4
Medical care	1,001.8	1,083.3	1,166.1
Personal business	755.0	826.1	965.4
Transportation	1,145.3	1,278.0	1,340.8
Recreation	765.8	832.1	883.5
Private education and research	110.9	116.4	125.4
Religious and welfare activities	113.2	136.9	145.6
Foreign travel and other, net	-3,742.7	-4,180.7	-4,457.0
Gross private domestic investment	1,314.1	1,219.2	1,354.7
Fixed investment	1,236.3	1,121.5	1,252.7
Change in business inventories	77.8p	97.7p	102.0p
Government purchases of goods and services (f)	5,084.2	5,243.7	5,509.4
State and local	2,450.8	2,494.9	2,524.9
Compensation of employees	1,292.4	1,351.3	1,401.6
Other current expenditures	777.3	785.2	790.1
Equipment	48.7	52.9	56.8
Construction	332.3	305.5	276.4
Federal	2,633.4	2,748.8	2,984.5
Defense	2,488.2	2,600.6	2,712.6
Non-defense	145.2	148.2	271.9
Net exports	-1,699.6	-1,449.6	-1,722.8
Exports	7,373.5	8,009.9	8,304.0
Commodities	1,440.7	1,419.8	1,336.3
Services	1,918.8	2,122.1	2,208.7
Visitor and crew expenditures	4,014.0	4,468.0	4,759.0
Less: Imports	9,073.1	9,459.5	10,026.8
Commodities	6,461.8	6,906.9	7,296.2
Services	2,340.0	2,265.3	2,428.6
Out-of-state expenditures of Hawaii residents	271.3	287.3	302.0
Discrepancy and omissions	1,974.4	1,940.5	2,458.6

Footnotes and source follow table 394.

Table 390.-- EXPENDITURES ON GROSS STATE PRODUCT (1972 DOLLARS): 1983 TO 1985

[In millions of 1972 dollars]

Item	1983	1984	1985
Gross state product	7,021.2	7,027.3	7,119.7
Personal consumption expenditures 2/	3,644.4	5,619.6	5,975.4
Food, alcoholic beverages and tobacco	1,339.7	1,385.6	1,447.6
Clothing, accessories and jewelry	540.9	605.6	591.1
Personal care	56.2	60.9	62.7
Housing	1,464.7	1,404.7	1,567.7
Household operation	429.0	496.7	511.6
Medical care	357.1	363.8	371.1
Personal business	283.2	294.8	326.5
Transportation	553.9	593.6	610.9
Recreation	360.4	376.8	373.1
Private education and research	49.8	50.2	52.4
Religious and welfare activities	50.8	59.0	60.8
Foreign travel and other, net	-1,841.3	-1,974.3	-2,037.5
Gross private domestic investment	660.4	622.2	682.3
Fixed investment	625.5	580.1	632.2
Change in business inventories	34.9	42.1	50.1
Government purchases of goods and services (f)	2,192.4	2,247.0	2,291.3
State and local	1,009.9	1,061.7	1,045.2
Compensation of employees	508.0	582.7	585.2
Other current expenditures	349.0	338.6	329.9
Equipment	26.6	29.3	31.7
Construction	126.3	111.1	98.4
Federal	1,182.5	1,185.3	1,246.1
Defense	1,117.3	1,121.4	1,132.6
Non-defense	65.2	63.9	113.5
Net exports	-362.6	-396.1	-640.0
Exports	3,197.7	3,235.7	3,273.8
Commodities	380.9	230.8	196.3
Services	861.6	915.1	922.2
Visitor and crew expenditures	1,955.2	2,089.8	2,155.3
Less: Imports	3,560.3	3,631.8	3,913.8
Commodities	2,451.9	2,567.5	2,798.5
Services	994.5	948.6	997.8
Out-of-state expenditures of Hawaii residents	113.9	115.7	117.5
Discrepancy and omissions	886.6	836.8	848.1

Footnotes and source follow table 394.

Table 391.-- CHARGES AGAINST GROSS STATE PRODUCT: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Compensation of employees	9,593.8	10,181.0	10,893.2
Wage and salary disbursements	8,142.0	8,620.3	9,208.9
Supplements to wages and salaries	1,451.8	1,560.7	1,684.3
Employer contributions for social insurance	751.0	803.5	867.5
State and local government programs	158.4	172.9	188.9
Federal government programs	592.6	630.6	678.6
Other labor income	700.7	757.2	816.9
Proprietors' income	910.3	947.6	1,003.1
Rental income of persons	104.8	84.8	84.6
Corporate profits before tax	717.6	702.4	661.0
Profits tax	219.0	178.4	189.0
State and local tax	29.5	42.8	48.7
Federal tax	189.5	135.5	140.3
Profits after tax	498.6	524.0	472.0
Dividends	272.4	298.4	303.5
Undistributed profits	226.3	225.6	168.5
Net interest	1,311.2	1,497.1	1,564.0
Personal interest income	1,460.4	1,679.4	1,773.2
Less: Government interest, net	-118.8	-130.7	-148.6
State and local (incl. state retirement fund)	-128.8	-143.0	-162.3
Federal	10.0	12.3	13.7
Less: Interest paid by consumers to business	268.0	313.0	357.8
Net state income	12,637.7	13,412.8	14,206.0
Business transfer payments	72.0	80.9	92.1
Indirect business tax and non-tax, state and local	1,109.5	1,153.9	1,253.1
Less: Subsidies less current surplus of state and local government enterprises	-17.1	-16.1	-12.5
Indirect business tax and non-tax, Federal	69.0	79.8	75.3
Less: Subsidies less current surplus of Federal government enterprises	-65.9	-62.3	-86.7
Net state product	13,971.2	14,805.8	15,725.7
Capital consumption allowances	864.7	905.0	953.2
Gross state product	14,835.9	15,710.8	16,678.9

Footnotes and source follow table 394.

Table 392.-- TOTAL PERSONAL CONSUMPTION EXPENDITURES: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Personal consumption expenditures 2/	8,162.8	8,757.1	9,506.2
Food, alcoholic beverages and tobacco	3,147.7	3,353.8	3,630.2
Food and alcohol, at home	1,452.0	1,523.8	1,638.2
Food and alcohol, away from home	1,591.3	1,725.6	1,890.0
Tobacco	104.4	104.3	101.9
Clothing, accessories and jewelry	878.4	915.8	1,038.4
Clothing and accessories	570.0	594.0	675.1
Footwear and upkeep	135.7	141.6	158.0
Jewelry	172.8	180.2	205.3
Personal care	132.9	143.5	152.1
Housing	2,907.4	3,156.3	3,422.3
Owner-occupied	766.9	820.0	874.4
Tenant-occupied	793.3	844.3	890.5
Rental value of farm dwellings	19.0	20.2	21.1
Hotels and other group quarters	1,328.3	1,471.8	1,636.3
Household operation	947.1	1,095.6	1,093.4
Furnishings	471.7	535.3	560.2
Utilities, telephone, and other services	475.4	560.2	533.3
Medical care	1,001.8	1,083.3	1,166.1
Drugs and orthopedic appliances	199.2	215.7	234.6
Hospitals and other professional services ...	689.0	754.8	818.7
Health insurance	113.6	112.8	112.8
Personal business	755.0	826.1	965.4
Transportation	1,145.3	1,278.0	1,340.8
Private (user-operated)	826.4	947.8	998.7
Public	318.9	330.2	342.1
Recreation	765.8	832.1	883.5
Books, radios, TV and other durables	237.9	259.8	270.9
Sport supplies, flowers & other non-durables	180.7	190.6	201.6
Movies, spectator sports and other services .	347.2	381.7	411.0
Private education and research	110.9	116.4	125.4
Religious and welfare activities	113.2	136.9	145.6
Foreign travel and other, net	-3,742.7	-4,180.7	-4,457.0
Out-of-State expenditures of residents	271.3	287.3	302.0
Less: Visitor expenditures	4,014.0	4,468.0	4,759.0
Addenda: 2/ Total durables	1,073.7	1,208.5	1,292.2
Total nondurables	4,749.8	5,025.3	5,447.8
Total services	6,109.2	6,703.8	7,256.1

Footnotes and source follow table 394.

Table 393.-- SUMMARY OF SAVINGS AND INVESTMENT AND EXTERNAL ACCOUNTS: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985
Gross savings	4,433.7	5,052.1	5,368.3
Personal savings	3,435.7	4,096.1	4,296.7
Undistributed profits	226.3	225.6	168.5
Capita consumption allowances	864.7	905.0	953.2
Government surplus or deficit (-), State & local	-93.0	-174.6	-50.1
Gross investment	4,433.7	5,052.1	5,368.3
Gross private domestic investment	1,510.1	1,426.7	1,575.1
Fixed investment	1,423.3	1,329.0	1,473.1
Non-residential	1,017.7	937.4	1,025.0
Structures	586.5	480.8	540.2
Producers' durable equipment (p)	431.2	456.6	484.8
Residential	414.6	391.6	448.1
Change in inventories (p)	77.8	97.7	102.0
Discrepancy and omissions	1,974.4	2,240.0	2,458.6
Net external investment	949.2	1,385.4	1,334.6
Total imports (p)	10,090.8	10,917.8	11,433.9
Receipts from Hawaii's import (GSP)	9,073.1	9,459.5	10,026.8
Merchandise imports, domestic & foreign	6,461.8	6,906.9	7,296.2
Domestic	5,096.3	5,309.4	5,564.2
Foreign	1,365.5	1,597.5	1,732.0
Services and income from investments	2,340.0	2,265.3	2,428.6
Out-of-State expenditures of Hawaii residents	271.3	287.3	302.0
Unilateral transfer (from Hawaii) to persons	68.5	72.9	77.5
Net external investment	949.2	1,385.4	1,334.6
Total exports (p)	10,090.8	10,917.8	11,438.9
Payments for Hawaii's exports (GSP)	7,373.5	8,009.9	8,304.0
Merchandise exports	1,440.7	1,419.8	1,336.3
Primary	592.3	571.2p	480.4p
Secondary	139.9	142.2p	149.0p
Miscellaneous	708.5	706.4	706.9
Services & income from investments	1,918.8	2,122.1	2,208.7
Visitor & crew expenditures	4,014.0	4,468.0	4,759.0
Unilateral transfers (to Hawaii) to persons	39.0	41.5	44.1
Transfers from Federal gov. in Washington, D.C.	2,678.3	2,866.4	3,090.8

Footnotes and source follow table 394.

Table 394.-- SUMMARY OF GOVERNMENT ACCOUNTS, STATE AND LOCAL, AND FEDERAL: 1983 TO 1985

[In millions of current dollars]

Item	1983	1984	1985f
Total revenues, State and local (HIE)	2,295.5	2,442.4	2,594.0
State and local tax and non-tax	1,816.4	1,933.6	2,076.0
Personal tax and non-tax	374.9	416.1	429.4
Corporate profits tax	29.5	42.8	48.7
Indirect business tax and non-tax	1,109.5	1,153.9	1,253.1
Contributions to social insurance programs ...	302.5	320.8	344.8
Employers'	217.2	232.6	251.4
Personal	85.3	88.2	93.4
Federal grants-in-aid	479.1	508.8	518.0
Total expenditures, State and local (HIE) .	2,304.8	2,617.0	2,644.1
Purchases of goods and services	2,450.8	2,494.9	2,524.9
Compensation of employees	1,292.4	1,351.3	1,401.6
Purchases from business	1,158.3	1,143.6	1,123.3
Transfer payments to persons	270.2	281.2	294.0
Net interest paid	-128.8	-143.0	-162.3
Interest paid (by government)	186.0	203.8	210.1
Less: Interest received (by government)	314.8	346.9	372.5
Subsidies less current surplus of gov. ent. 2/ .	-17.1	-16.1	-12.5
Surplus or deficit (-), State & local (HIE)	-93.0	-174.6	-50.1
Total revenues, Federal	4,588.3	4,795.7	5,130.4
Federal tax and non-tax revenues	1,911.0	1,929.3	2,039.6
Personal tax and non-tax	541.2	524.0	519.8
Corporate profits tax	189.5	135.5	140.3
Indirect business tax and non-tax	69.0	79.8	75.3
Contributions for social insurance programs ..	1,110.3	1,190.0	1,304.2
Employers	592.6	630.6	678.6
Personal	517.7	559.4	625.6
Transfers from Federal gov. in Washington, D.C.	2,678.3	2,866.4	3,090.8
Total expenditures, Federal	4,588.3	4,795.7	5,130.4
Purchases of goods and services, (GSP)	2,633.4	2,748.8	2,984.5
Transfer payments to persons	1,531.7	1,588.1	1,700.9
Grants-in-aid to State and local government	479.1	508.8	518.0
Net interest paid (to persons) (p)	10.0	12.3	13.7
Subsidies less current surplus of gov. ent.	-65.9	-62.3	-86.7

f Fiscal year data; p preliminary data.

1/ Refers to purchases in Hawaii.

2/ State and local governments paid no subsidies during this period.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1983 (1985) and unpublished updates and revisions.

Table 395.-- INCOME PROJECTIONS: 1980 TO 2005

[Constant 1980 dollars]

Year	Gross State product (millions)	Personal income (millions)	Disposable personal income (millions)	Per capita personal income (dollars)
1980 (revised) .	11,878.3	10,309.8	8,800.4	10,648
1985 (revised) .	(NA)	11,310.9	9,795.1	10,733
1990	14,061.8	12,896.3	11,026.3	11,328
1995	16,192.3	14,774.3	12,632.0	12,195
2000	18,264.4	16,611.9	14,203.1	13,103
2005	20,180.8	18,336.8	15,678.0	13,998

NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 15; U.S. Bureau of Economic Analysis microfiche dated August 1986, adjusted to 1980 constant dollars by DPED.

Table 396.-- PERSONAL INCOME, TOTAL AND PER CAPITA, BY COUNTIES: 1984, 1995, AND 2005

County	Total personal income (millions of 1980 dollars)			Per capita personal income (1980 dollars)		
	1984	1995	2005	1984	1995	2005
State total ..	10,857.1	14,774.3	18,336.8	10,453	12,195	13,998
Honolulu	8,856.9	11,398.6	13,943.3	10,999	12,709	14,608
Hawaii	853.5	1,324.7	1,676.3	8,022	9,856	11,357
Kauai	372.8	661.2	859.3	8,476	10,347	11,902
Maui	774.0	1,389.9	1,855.2	9,316	11,951	13,671

Source: U.S. Bureau of Economic Analysis printouts dated April 1986, as adjusted to 1980 constant dollars by DPED; Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984).

Table 397.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1969 TO 1985

[Revised from Data Book 1985, table 372]

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1969 ...	3,289	2,754	4,426	3,707	116	115
1970 ...	3,784	3,197	4,960	4,191	122	120
1971 ...	4,074	3,487	5,147	4,405	120	118
1972 ...	4,489	3,790	5,487	4,632	118	116
1973 ...	4,985	4,216	5,922	5,008	114	112
1974 ...	5,727	4,879	6,674	5,685	118	117
1975 ...	6,184	5,392	7,067	6,162	116	117
1976 ...	6,701	5,807	7,510	6,507	113	113
1977 ...	7,231	6,228	7,896	6,801	108	109
1978 ...	8,054	6,906	8,671	7,435	107	107
1979 ...	9,043	7,718	9,518	8,124	105	106
1980 ...	10,310	8,800	10,648	9,089	107	108
1981 ...	11,068	9,421	11,287	9,607	103	104
1982 ...	11,774	10,243	11,799	10,265	103	106
1983 ...	12,862	11,073	12,616	10,861	104	105
1984 ...	13,690	11,936	13,199	11,508	101	102
1985 ...	14,558	12,607	13,814	11,963	100	101

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1986.

Table 398.-- PER CAPITA PERSONAL INCOME IN CURRENT AND CONSTANT DOLLARS: 1970 AND 1985

Subject	Value	Subject	Value
Per capita personal income: 1/		Percent increase, 1970-85: 3/	
1970	4,960	Current dollars	178.5
1985	13,814	Constant dollars	8.1
In 1970 dollars 2/	5,364		
		Rank: 4/	
Percent of U.S. average:		1970	4
1970	122.4	1985	18
1985	99.6	Percent increase	51

1/ In dollars. U.S. values were $4,051 in 1970 and $13,867 in 1985 ($5,005 in 1970 dollars).

2/ Based on Honolulu CPI-W for 1970 (114.2) and CPI-U for 1985 (294.1).

3/ U.S. increases were 242.3 percent in current dollars and 23.5 percent in constant dollars).

4/ Among 50 States and D.C.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1986. Constant dollar values calculated by DPED.

Table 399.-- PERSONAL INCOME: QUARTERLY, 1981 TO 1986

[In millions of dollars. Seasonally adjusted at annual rates]

Quarter	1981	1982	1983	1984	1985	1986
First	10,750	11,487	12,541	13,409	14,232	15,154
Second	10,930	11,678	12,717	13,649	14,412	15,313
Third	11,202	11,914	12,812	13,800	14,627	
Fourth	11,389	12,016	13,377	13,903	14,962	

Source: U.S. Bureau of Economic Analysis, printouts dated October 1986.

Table 400.-- PERSONAL INCOME BY MAJOR SOURCES: 1980 TO 1985

[In millions of dollars. Revised from Data Book 1985, table 373]

Item	1980	1981	1982	1983	1984	1985
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	6,674	7,195	7,664	8,142	8,620	9,209
Other labor income	516	566	642	701	757	817
Proprietors income	851	639	688	910	948	1,003
Farm	246	83	106	188	133	115
Nonfarm	606	556	581	722	815	888
By industry:						
Farm	391	222	263	339	284	268
Nonfarm	7,650	8,178	8,731	9,414	10,041	10,760
Private	5,288	5,600	5,841	6,345	6,776	7,287
Government and govt. enterprises	2,361	2,577	2,890	3,069	3,265	3,473
Federal, civilian	667	720	797	860	924	969
Federal military	817	921	1,059	1,121	1,210	1,312
State and local	878	936	1,034	1,088	1,131	1,193
Derivation of personal income						
Labor and proprietors income	8,041	8,399	8,993	9,753	10,325	11,029
Less: Personal contributions for social insurance	439	507	562	603	648	719
Net labor and proprietors income .	7,602	7,893	8,431	9,150	9,678	10,310
Plus: Dividends, interest, and rent	1,367	1,638	1,654	1,838	2,063	2,161
Plus: Transfer payments	1,341	1,537	1,689	1,874	1,950	2,087
Personal income	10,310	11,068	11,774	12,862	13,490	14,558

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1986.

Table 401.-- TOTAL PERSONAL INCOME, BY COUNTIES: 1959 TO 1984

[Millions of dollars]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	1,282.5	1,061.4	221.1	100.3	49.5	71.3
1962	1,635.0	1,369.0	266.0	122.0	59.1	84.9
1965	2,050.5	1,718.8	331.7	149.2	73.0	109.5
1966	2,245.0	1,881.4	363.6	164.5	79.9	119.2
1967	2,433.6	2,044.0	389.6	172.4	86.5	130.7
1968	2,725.7	2,291.4	434.4	195.6	94.2	144.5
1969	3,113.9	2,632.6	481.3	217.0	103.6	160.7
1970	3,566.0	3,011.1	554.9	258.0	112.7	184.3
1971	3,823.2	3,213.7	609.5	285.3	122.4	201.8
1972	4,177.8	3,521.6	656.2	309.4	128.5	218.3
1973	4,650.4	3,915.4	735.0	340.8	146.4	247.7
1974	5,297.7	4,362.7	935.0	457.8	180.4	296.8
1975	5,785.4	4,799.7	985.7	463.6	185.9	336.2
1976	6,222.5	5,159.2	1,063.3	486.5	201.4	375.4
1977	6,975.0	5,786.3	1,188.6	531.9	227.3	429.4
1978	7,771.4	6,434.6	1,336.8	579.1	257.2	500.5
1979	8,684.9	7,162.4	1,522.4	651.7	291.7	579.0
1980	9,810.5	8,028.5	1,782.0	789.8	337.8	654.4
1981	10,878.3	8,939.9	1,938.5	846.8	369.6	722.1
1982 1/	11,592.6	9,493.2	2,099.4	902.6	394.5	802.3
1983 1/	12,553.4	10,274.4	2,279.0	977.4	425.5	876.0
1984	13,532.2	11,039.2	2,493.1	1,063.8	464.6	964.7

1/ Revised from Data Book 1985, table 374.
Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984, April 1985, and April 1986.

Table 402.-- PER CAPITA PERSONAL INCOME, BY COUNTIES: 1959 TO 1984

[Dollars]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	2,103	2,201	1,731	1,695	1,821	1,725
1962	2,504	2,618	2,045	2,044	2,105	2,007
1965	2,938	3,052	2,460	2,419	2,531	2,470
1966	3,221	3,337	2,730	2,712	2,810	2,703
1967	3,437	3,558	2,917	2,853	3,022	2,936
1968	3,791	3,922	3,224	3,201	3,232	3,253
1969	4,191	4,363	3,449	3,440	3,448	3,462
1970	4,674	4,827	3,988	4,059	3,803	4,007
1971 1/	4,830	5,077	3,844	3,882	3,681	3,897
1972	5,107	5,297	4,281	4,425	4,034	4,240
1973	5,524	5,726	4,650	4,678	4,501	4,702
1974	6,174	6,250	5,841	6,196	5,545	5,531
1975	6,612	6,781	5,896	6,005	5,581	5,933
1976	6,973	7,196	6,061	6,045	5,791	6,239
1977	7,617	7,873	6,575	6,439	6,417	6,842
1978	8,367	8,689	7,099	6,761	7,007	7,589
1979	9,141	9,506	7,743	7,317	7,674	8,326
1980	10,129	10,498	8,746	8,510	8,583	9,141
1981	11,090	11,596	9,232	8,838	9,168	9,778
1982 2/	11,642	12,204	9,633	9,018	9,419	10,562
1983 2/	12,328	12,965	10,093	9,501	9,883	10,968
1984	13,028	13,709	10,679	9,998	10,564	11,611

1/ Decline in Neighbor Island per capita incomes may reflect use of questionable population estimates.

2/ Revised from Data Book 1985, table 375.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated April 1984, April 1985, and April 1986.

Table 403 .-- UNREPORTED OR ILLEGAL INCOME: 1981

[In millions of dollars. Data are rough estimates of income from the "underground economy," calculated in part by applying national ratios of unreported to reported income, developed by Carl Simon and Ann Witte, to the official personal income estimate ($10.8 billion in 1981) published for Hawaii. For further details, see source and Data Book 1984, table 284]

Source	Amount
Total	1,160.3
Income hidden to avoid taxes	569.1
Legal wages and salaries	147.4
Legal self-employment earnings	316.8
Other hidden income	104.9
Income earned by avoiding cigarette, alcohol and sales taxes	2.3
Unreported income of illegal alien workers	6.7
Income from illegal transfers	56.0
Income from production and distribution of illegal goods	445.6
Drugs	440.2
Marijuana	361.6
Other drugs	78.4
Smuggling of goods other than drugs	1.2
Pornography	4.2
Income from illegal services	58.0
Takeout from illegal gambling	38.5
Loan sharking	1.1
Prostitution	18.4
Other illegal income (hijacking, forgery, protection and extortion, pirating of records and taxes)	22.6

Source: Linda Kephart, "Business booms 'off-the-books,'" Hawaii Business, March 1984, p. 69.

Table 404.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS: 1949 TO 1984

[In dollars. Based on surveys made in March or April of following year]

Year	Households	Families	Unrelated individuals 1/	Persons with income 1/	
				Male	Female
1949	(NA)	3,568	1,583	2,340	1,247
1959	(NA)	6,366	1,998	3,753	1,796
1969	10,675	11,664	2,981	6,528	3,222
1975	15,991	17,770	6,180	9,489	4,082
1979	20,473	22,750	7,097	11,505	6,581
1980	21,666	24,813	8,506	13,533	6,917
1981	22,434	27,499	10,003	13,635	7,069
1982	23,582	27,840	11,068	13,582	8,133
1983	26,805	29,742	12,211	14,903	7,941
1984	28,877	32,831	12,303	16,147	8,548

NA Not available.

1/ 14 years old and over through 1975, and 15 years old and over thereafter. Data for 1975 and 1980-1984 exclude persons in military group quarters.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (1962), tables 66 and 67 (for 1949 data); 1970 Census of Population, General and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 47 (for 1959 data); 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61 (for 1969 and 1979 data); "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177; Current Population Survey (March), annual, 1981 to 1985, machine-readable file, special tabulation by Hawaii State Data Center.

Table 405.-- INCOME OF HOUSEHOLDS, FAMILIES, AND PERSONS IN 1979: 1980

[Income received in 1979 by households, families, and persons surveyed in 1980]

Income	The State	Oahu	Other islands
Households	294,934	230,931	64,003
Less than $5,000	24,433	17,631	6,802
$5,000 to $7,499	18,775	13,771	5,004
$7,500 to $9,999	21,209	16,663	4,546
$10,000 to $14,999	41,604	32,320	9,284
$15,000 to $19,999	37,836	28,833	9,003
$20,000 to $24,999	34,842	26,768	8,074
$25,000 to $34,999	52,585	41,728	10,857
$35,000 to $49,999	39,955	33,443	6,512
$50,000 or more	23,695	19,774	3,921
Median	$20,473	$21,077	$18,457
Mean	$24,519	$25,180	$22,132
Families	227,974	178,516	49,458
Less than $5,000	11,533	8,603	2,930
$5,000 to $7,499	12,195	8,920	3,275
$7,500 to $9,999	15,068	11,817	3,251
$10,000 to $14,999	29,796	22,815	6,981
$15,000 to $19,999	28,957	21,572	7,385
$20,000 to $24,999	28,013	21,234	6,779
$25,000 to $34,999	45,089	35,482	9,607
$35,000 to $49,999	36,236	30,450	5,786
$50,000 or more	21,087	17,623	3,464
Median	$22,750	$23,554	$20,600
Mean	$26,629	$27,318	$24,139
Unrelated individuals 15 years and over	136,692	112,303	24,389
Less than $2,000	17,492	13,797	3,695
$2,000 to $2,999	7,698	5,713	1,985
$3,000 to $4,999	16,598	12,795	3,803
$5,000 to $7,999	34,234	29,848	4,386
$8,000 to $9,999	13,112	11,007	2,105
$10,000 to $14,999	21,340	17,209	4,131
$15,000 to $24,999	18,037	14,972	3,065
$25,000 to $49,999	6,841	5,866	975
$50,000 or more	1,340	1,096	244
Median	$7,097	$7,167	$6,735
Mean	$9,947	$10,061	$9,423

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 71.

Table 406 .-- INCOME OF HOUSEHOLDS AND FAMILIES: ANNUAL AVERAGES, 1979 TO 1981 AND 1982 TO 1984

[Data refer to income before taxes, as reported in March survey in following year. Based on a pooled sample of 1,885 households for 1979-1981 and 1,735 households for 1982-1984]

Income	Households		Families	
	1979-1981	1982-1984	1979-1981	1982-1984
Total	308,743	327,403	233,740	247,522
Under $5,000	23,171	20,902	9,628	9,513
$5,000 to $7,499	21,699	15,307	12,403	8,807
$7,500 to $9,999	22,854	19,302	13,047	9,843
$10,000 to $14,999	37,328	38,121	26,378	26,731
$15,000 to $19,999	38,607	32,044	26,160	20,483
$20,000 to $24,999	39,396	30,414	30,688	24,461
$25,000 to $34,999	58,289	59,227	53,044	49,274
$35,000 to $49,999	45,747	62,788	42,013	56,006
$50,000 to $74,999	18,925	38,388	17,652	32,791
$75,000 and over	2,727	10,910	2,727	9,613
Median income (dollars)	21,196	26,343	24,766	30,071

Source: U.S. Bureau of the Census for U.S. Bureau of Labor Statistics, Current Population Survey (March), annual, 1980 to 1985; machine-readable data file, special tabulation by Hawaii State Data Center.

Table 407.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1970 AND 1980

Subject	1970	1980	Percent	
			1970	1980
INCOME IN PREVIOUS YEAR				
Households	204,415	294,934	...	...
Median income (current dollars)	$10,675	$20,473	...	...
Median income (1979 dollars)	$21,137	$20,473	...	...
Families	170,729	227,974	...	...
Median income (current dollars)	$11,664	$22,750	...	...
Median income (1979 dollars)	$23,095	$22,750	...	...
Unrelated individuals 15 years and over	83,093	136,692	...	...
Median income (current dollars)	$2,981	$7,097	...	...
Median income (1979 dollars)	$5,902	$7,097	...	...
Male, 15 years and over 1/	289,165	378,942	100.0	100.0
Without income	29,578	29,106	10.2	7.7
With income	259,587	349,836	89.8	92.3
Median income (current dollars)	$6,528	$11,505	...	...
Median income (1979 dollars)	$12,925	$11,505	...	...
Female, 15 years and over 1/	264,590	360,707	100.0	100.0
Without income	94,729	78,115	35.8	21.7
With income	169,861	282,592	64.2	78.3
Median income (current dollars)	$3,222	$6,581	...	...
Median income (1979 dollars)	$6,380	$6,681	...	...
INCOME IN PREVIOUS YEAR BELOW POVERTY LEVEL 2/				
Persons	68,364	91,618	9.3	9.9
65 years and over	8,457	7,654	19.9	10.5
In families	51,530	66,843	7.6	8.2
Householder	13,063	17,700	7.7	7.8
Female householder, no husband present	5,180	7,985	32.4	28.0
Related child under 18 years	27,895	35,103	10.3	13.0
Related child under 6 years	10,129	14,725	11.9	16.3
Other relatives	10,572	14,040	4.5	4.4
Unrelated individuals	16,834	24,775	30.3	23.0
65 years and over	4,561	4,927	50.1	31.7

1/ 14 years and over in 1970.

2/ Percent columns show percent below poverty level for specified groups. Data are based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the number of persons in Hawaii below the poverty level.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-13C (July 1983), table 61.

Table 408.-- INCOME AND POVERTY STATUS IN 1979, BY COUNTIES: 1980

[Income and poverty status in 1979 of households, families and persons surveyed in 1980]

County	Median income in 1979 (dollars)		Per capita income in 1979 (dollars)	Income in 1979 below poverty level 1/	
	Households	Families		Percent of persons for whom poverty status is determined	Percent of families
The State ..	20,473	22,750	7,740	9.9	7.8
Hawaii	16,975	19,132	6,554	13.2	10.3
Honolulu	21,077	23,554	7,912	9.5	7.5
Kalawao	5,750	11,667	6,838	31.9	13.3
Kauai	19,066	20,882	7,022	8.9	6.9
Maui	20,237	22,579	7,818	9.6	7.6

1/ Based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the percent of persons and families below poverty level in Hawaii.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 57.

Table 409.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Data refer to the poverty status in 1979 of families and persons surveyed in 1980]

Subject	Number
ALL INCOME LEVELS IN 1979	
Families	227,974
Unrelated individuals	107,787
Persons	927,032
INCOME IN 1979 BELOW POVERTY LEVEL	
Families	17,700
Percent below poverty level	7.8
Unrelated individuals	24,775
Percent below poverty level	23.0
Persons	91,618
Percent below poverty level	9.9
INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL	
Families	26,815
Percent below poverty level	11.8
Unrelated individuals	30,725
Percent below poverty level	28.5
Persons	133,214
Percent below poverty level	14.4
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL	
Percent of persons:	
Below 75 percent of poverty level	6.1
Below 150 percent of poverty level	19.0
Below 200 percent of poverty level	29.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72.

Table 410.-- POVERTY INCOME GUIDELINES: 1980, 1985 AND 1986

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services to determine eligibility for certain Federal programs for the poor. In earlier years, these guidelines were issued by the Community Services Administration]

Size of family unit	Effective April 21, 1980 1/	Effective March 8, 1985 2/	Effective Feb. 11, 1986 2/
1	4,370	6,040	6,170
2	5,770	8,110	8,330
3	7,170	10,180	10,490
4	8,570	12,250	3/ 12,650
5	9,970	14,320	14,810
6	11,370	16,390	16,970
7	12,770	18,460	19,130
8	14,170	20,530	4/ 21,290

1/ Non-farm families only; guidelines for farm families were lower.

2/ All families.

3/ Corresponding levels for four-person families elsewhere in the United States were $11,000 on the Mainland and $13,750 in Alaska.

4/ For larger families, add $2,160 for each additional member.

Source: Community Services Administration, "General Characteristics of Community Action Programs; Income Poverty Guidelines (Revised)," Federal Register, Vol. 45, No. 78 (April 21, 1980), pp. 26712-26713; Department of Health and Human Services, "Annual Revision of the Poverty Income Guidelines," Federal Register, Vol. 50, No. 46 (March 8, 1985), pp. 9517-9518, and correction in Vol. 50, No. 50, March 14, 1985, p. 10319; Department of Health and Human services, "Poverty Income Guidelines; Annual Revision," Federal Register, Vol. 51, No. 28 (February 11, 1986), pp. 5105-5106.

Table 411.-- ANNUAL INCOME AND EXPENDITURES OF URBAN CONSUMER UNITS, FOR OAHU: 1980-81 AND 1982-83

[Data based on 792 sample interviews in 1980-81 and 928 in 1982-83. For detailed breakdowns, see source]

Item	Annual averages (dollars)	
	1980-81	1982-83
Total expenditures	18,584	22,247
Food at home	2,681	2,838
Food away from home	887	1,265
Alcoholic beverages	302	460
Housing	5,454	6,122
Shelter	3,523	3,948
Utilities, fuels, and public services	937	1,142
Household operations	369	280
Housefurnishings and equipment	626	751
Apparel	773	1,080
Transportation	3,729	4,051
Health care	731	770
Entertainment	804	1,101
Personal care	153	232
Reading	119	159
Education	265	380
Tobacco and smoking supplies	143	177
Miscellaneous	258	482
Cash contributions	504	923
Personal insurance and pensions	1,779	2,204
Money income before taxes	22,926	27,937
Personal taxes	2,915	3,595
Other money receipts	123	227
Mortgage principal paid on owned property	440	635
Gifts of goods and services	498	690

Source: U.S. Bureau of Labor Statistics, Consumer Expenditure Survey: Interview, 1984, Bulletin 2267 (August 1986), pp. 67-70 and 83-86.

Table 412.-- TOP WEALTHHOLDERS: 1962 TO 1982

[Top wealthholders are defined as persons with a gross estate in excess of specified amounts, rising from $60,000 in 1962 to $300,000 in 1982. All figures are estimates based on estate tax return samples]

Group and year	Number of top wealthholders	Millions of dollars		
		Total assets	Debts and mortgages	Net worth
Gross estate over $60,000:				
1962	11,323	1,908	231	1,677
1969	36,470	6,327	1,090	5,236
1972	53,700	7,866	1,369	6,497
Gross estate over $120,000:				
1976	39,000	7,436	1,546	5,890
Gross estate over $300,000:				
1982	14,200	8,815	4,471	4,344
Gross estate over $500,000:				
1982	5,700	5,891	4,005	1,887

Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56; Statistics of Income - 1969, Personal Wealth (1973), pp. 57-58; Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33; and Statistics of Income Bulletin, Summer 1983, pp. 1-26, and Winter 1984-85, pp. 1-17.

Table 413.-- CHARACTERISTICS OF TOP WEALTHHOLDERS: 1982

[Top wealthholders are defined as persons with gross assets of $300,000 or more. All figures in this table are estimates based on estate tax return samples]

Subject	Number of persons	Amount (millions of dollars)
GROSS ASSETS OF $300,000 OR MORE		
Total assets, all persons in group	14,200	8,815
Debts and mortages	13,100	4,471
Net worth	14,200	4,344
Men	11,200	2,421
Women	2,900	1,923
GROSS ASSETS OF $500,000 OR MORE		
Total assets, all persons in group	5,700	5,891
Debts and mortgages	5,500	4,005
Net worth	5,700	1,887
Selected assets:		
Cash	5,700	313
Corporate stock	2,800	328
Bonds	1,100	138
Real estate	5,200	3,363
Noncorporate business assets	1,700	278
NET WORTH OF $1,000,000 OR MORE		
Net worth, all persons in group (millionaires)	800	1,663

Source: U.S. Internal Revenue Service, "Preliminary Estimates of Personal Wealth, 1982: Composition of Assets," SOI Bulletin, Winter 1984-85, pp. 1-17.

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 7, 16, 17, 18, 21, and 23.

In June 1986, the Honolulu all-items consumer price index for all urban consumers stood at 299.2, with the 1967 level equal to 100. The index had increased 1.9 percent in the preceding 12 months, 18.4 percent since 1981, and 84.3 percent since 1976. Prices have risen most rapidly since 1967 for medical care (328.8 percent), utility gas (285.5 percent), and food away from home (up 246.9 percent), and least rapidly for apparel commodities (87.5 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $12,157 in the Autumn of 1981, 19 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 and, like the latter, expressed as a percent of the 1967 annual average. The index for all urban consumers was further modified in February 1983, when the basis for measuring homeowners' costs was substantially altered. Beginning in 1987, the Honolulu CPI will appear only twice annually.

Comparisons of family budgets between Honolulu and various Mainland communities were published annually by the U.S. Bureau of Labor Statistics from 1966 to 1981, and then discontinued. Cost of living adjustments for Federal employees in Hawaii are based on comparisons with Washington, D.C., prices, compiled by the U.S. Office of Personnel Management at annual intervals through 1983.

In addition to these data, the Bureau of Labor Statistics formerly published monthly and annual data on average Honolulu prices for a variety of foods, and occasional data on a number of non-food items. The city food price series were suspended after June 1978 and since that time only unofficial estimates have been available. Monthly data for Honolulu electric and gas utility rates and gasoline prices were compiled and published by BLS through December 1986.

No composite wholesale or producer price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Statistics Service, and in various other publications of the State Department of Agriculture. Wholesale price statistics of other commodities are usually unavailable.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1986, Section 16. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 414.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: 1963 TO 1986

[1967 average = 100]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers: 1/							
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982	267.6	262.0	263.3	269.0	269.4	275.2	269.9
1983	273.5	270.4	272.8	271.4	273.5	276.4	278.4
1984	284.8	280.7	283.2	284.7	286.0	287.4	289.8
1985	294.1	292.6	292.7	293.5	294.2	295.6	298.5
1986		301.2	299.0	299.2	301.5	302.2	
Urban wage earners and clerical workers:							
1963	...	...	...	...	...	...	92.8
1964	92.9	...	...	92.4	...	...	93.7
1965	94.6	...	...	94.1	...	...	96.2
1966	97.3	...	...	96.8	...	...	98.8
1967	100.0	...	...	99.7	...	...	101.8
1968	103.8	...	...	103.4	...	...	105.7
1969	108.5	...	...	108.2	...	...	111.0
1970	114.2	...	...	114.4	...	...	115.7
1971	118.9	...	...	118.5	...	...	121.1
1972	122.8	...	...	122.2	...	...	124.4
1973	128.3	...	...	127.5	...	...	132.8
1974	141.9	...	...	141.2	...	...	148.5
1975	155.0	...	...	154.3	...	...	159.8
1976	162.8	...	...	162.3	...	...	165.5
1977	171.0	...	...	170.5	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982	268.1	263.0	264.2	268.9	269.5	274.7	271.0
1983	278.8	274.8	276.9	273.4	278.2	285.9	288.2
1984	291.3	284.3	289.0	290.9	293.6	294.5	297.6
1985	301.4	300.3	300.1	300.4	301.3	302.7	305.8
1986		308.5	306.7	306.5	308.3	308.8	

1/ Not available before 1978.

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities and U.S. Average (monthly), as corrected.

Table 415.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1981 TO 1985

[Unless otherwise specified, 1967=100]

Group	1981	1982	1983	1984	1985
All items	252.4	267.6	273.5	284.8	294.1
Food and beverages	275.4	288.3	296.0	308.2	320.6
Food	285.8	298.8	306.7	319.7	332.2
Food at home	291.7	300.2	305.2	318.6	328.6
Cereals and bakery products	276.6	278.9	289.3	300.8	316.9
Meats, poultry, fish, and eggs	278.8	283.4	286.6	292.2	294.8
Meats, poultry, and fish	283.8	288.2	291.8	295.8	299.5
Dairy products	279.2	285.5	287.6	291.6	298.5
Fruits and vegetables	311.5	329.3	324.9	359.3	377.9
Other foods at home	331.1	344.5	358.4	376.6	392.0
Food away from home	277.8	299.7	314.1	327.9	340.9
Alcoholic beverages	186.8	200.0	206.0	210.5	222.7
Housing	240.3	255.0	257.5	268.2	275.8
Shelter	238.4	253.7	257.2	271.2	282.9
Renters' costs 1/	(NA)	(NA)	102.7	109.4	115.0
Rent, residential	224.8	240.7	253.0	269.0	281.9
Other renters' costs	288.2	338.5	382.9	414.4	446.5
Homeowners' costs 1/	(NA)	(NA)	100.6	105.9	110.4
Owners' equivalent rent 1/	(NA)	(NA)	100.6	105.8	110.4
Fuel and other utilities	339.1	352.3	339.9	347.0	337.9
Fuels	480.9	500.4	446.0	457.3	435.4
Gas (piped) and electricity	481.4	500.4	445.3	456.5	434.3
Electricity	(NA)	(NA)	(NA)	452.4	428.2
Utility (piped) gas	(NA)	(NA)	(NA)	451.4	448.2
Household furnishings and operation	197.7	210.4	216.7	219.0	221.9
Apparel and upkeep	193.4	201.5	207.7	205.1	203.9
Apparel commodities	188.1	195.5	200.9	197.1	195.1
Men's and boys' apparel	190.0	197.2	201.1	202.2	208.5
Women's and girls' apparel	172.8	183.7	186.9	185.8	190.6
Footwear	188.4	187.4	190.9	194.5	197.0
Transportation	247.1	255.6	253.7	265.7	270.9
Private transportation	252.5	260.1	258.7	272.3	277.6
Motor fuel 2/	(NA)	(NA)	(NA)	194.9	196.8
Gasoline 2/	(NA)	(NA)	(NA)	195.5	197.3
Public transportation	222.6	236.7	231.9	234.2	238.6
Medical care	289.4	324.3	357.6	379.7	400.6
Entertainment	224.8	246.7	257.6	268.9	288.4
Other goods and services	244.2	275.6	303.7	319.1	336.8
Personal care	246.5	276.4	284.9	283.5	292.2

Continued on next page.

Table 415.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1981 TO 1985 -- Con.

Group	1981	1982	1983	1984	1985
All items	252.4	267.6	273.5	284.8	294.1
Commodities	243.7	257.0	263.8	272.2	279.3
Food and beverages	275.4	288.3	296.0	308.2	320.6
Commodities less food and beverages	218.8	231.8	237.8	243.6	247.3
Nondurables less food and beverages	249.5	263.0	270.8	275.1	281.2
Durables	188.7	200.7	205.7	213.7	214.3
Services	267.0	284.9	289.5	304.2	316.0
Medical care services	301.1	338.7	375.1	398.2	418.8
Special indexes:					
All items less shelter	254.6	269.4	276.4	286.5	294.8
All items less medical care	249.7	263.9	268.5	279.2	288.0
All items less energy 3/	139.5	148.7	153.2	159.9	166.0
Energy 2/	205.5	207.8	192.3	196.5	193.1
Commodities less food	216.7	229.6	235.6	241.3	245.4
Nondurables less food	242.0	255.3	262.9	267.2	273.7
Nondurables	265.6	278.9	286.7	295.3	304.8
Services less rent of shelter 1/	(NA)	(NA)	101.3	105.8	109.2
Services less medical care	258.8	274.6	276.3	290.0	300.8

NA Not available.
1/ December 1982=100.
2/ June 1978=100.
3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January issues, 1982 to 1986.

Table 416.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1981 TO 1985

[Unless otherwise specified, 1967=100]

Group	1981	1982	1983	1984	1985
All items	252.8	268.1	278.8	291.3	301.4
Food and beverages	278.6	292.4	300.3	313.2	326.9
Food	289.8	303.7	311.8	325.5	339.5
Food at home	295.9	306.6	312.4	326.6	338.5
Cereals and bakery products	274.5	273.7	281.7	292.5	307.4
Meats, poultry, fish, and eggs	286.5	298.5	302.7	311.6	320.1
Meats, poultry, and fish	292.2	304.4	309.1	316.7	326.5
Dairy products	279.3	285.6	287.8	291.6	298.3
Fruits and vegetables	317.0	330.2	327.5	360.8	377.3
Other foods at home	335.2	352.1	366.5	385.3	401.3
Food away from home	277.3	298.9	313.5	327.9	341.0
Alcoholic beverages	181.8	195.3	201.7	206.4	218.2
Housing	236.3	251.9	265.8	278.5	288.2
Shelter	230.2	246.8	266.1	282.9	297.8
Renters' costs 1/	(NA)	(NA)	(NA)	(NA)	102.8
Rent, residential	224.8	240.7	253.0	269.0	281.9
Other renters costs	292.4	343.5	391.4	425.4	459.8
Homeowners' costs 1/	(NA)	(NA)	(NA)	(NA)	103.3
Owners' equivalent rent 1/	(NA)	(NA)	(NA)	(NA)	103.3
Fuel and other utilities	338.9	352.2	340.1	347.0	337.9
Fuels	479.2	499.0	445.5	456.4	434.8
Gas (piped) and electricity	479.4	498.8	444.9	455.7	433.9
Electricity	(NA)	(NA)	(NA)	452.4	428.1
Utility (piped) gas	(NA)	(NA)	(NA)	451.5	448.3
Household furnishings and operation	206.6	219.6	226.8	228.1	232.5
Apparel and upkeep	201.8	208.1	214.6	212.3	210.5
Apparel commodities	196.8	201.9	207.5	203.9	201.2
Men's and boys' apparel	188.7	198.0	201.4	203.1	210.7
Women's and girls' apparel	153.0	159.4	162.1	162.0	165.9
Footwear	171.4	172.8	175.8	179.0	181.1
Transportation	248.4	255.8	253.3	265.3	270.2
Private transportation	255.0	261.7	259.4	272.8	277.8
Motor fuel 2/	(NA)	(NA)	(NA)	194.0	195.9
Gasoline 2/	(NA)	(NA)	(NA)	194.6	196.4
Public transportation	223.3	237.5	232.7	234.9	239.3
Medical care	296.0	332.5	365.2	386.3	406.7
Entertainment	236.0	257.7	270.0	282.5	302.3
Other goods and services	238.8	269.7	299.4	313.8	331.0
Personal care	234.8	261.3	269.5	268.5	277.0

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Table 416.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1981 TO 1985 -- Con.

Group	1981	1982	1983	1984	1985
All items	252.8	268.1	278.8	291.3	301.4
Commodities	246.5	259.5	267.0	276.4	284.7
Food and beverages	278.6	292.4	300.3	313.2	326.9
Commodities less food and beverages	221.3	233.3	240.3	247.6	253.4
Nondurables less food and beverages	257.4	269.8	277.3	282.3	288.4
Durables	186.7	197.9	204.3	212.8	217.7
Services	264.0	283.0	299.0	316.3	328.8
Medical care services	310.4	350.0	385.9	407.8	428.0
Special indexes:					
All items less shelter	259.3	273.7	280.5	290.8	299.4
All items less medical care	249.8	264.0	273.8	285.8	295.4
All items less energy 3/	139.1	148.5	156.0	163.4	170.0
Energy 2/	204.1	205.5	191.1	195.0	192.3
Commodities less food	218.8	230.8	237.8	245.0	251.1
Nondurables less food	248.6	260.9	268.3	273.2	279.7
Nondurables	270.9	284.1	291.9	301.2	311.5
Services less rent of shelter 1/	(NA)	(NA)	(NA)	(NA)	101.0
Services less medical care	254.8	271.5	285.3	301.8	313.4

NA Not available.
1/ December 1984=100.
2/ June 1978=100.
3/ December 1977=100.
Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January issues, 1982 to 1986.

Table 417.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1985

[Percent of all items]

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY		
All items	100.000	100.000
Food and beverages	21.583	24.290
Food	20.388	22.981
Food at home	13.701	16.169
Cereals and bakery products	1.635	2.042
Meats, poultry, fish, and eggs	4.647	5.809
Meats, poultry, and fish	4.442	5.583
Dairy products	1.356	1.496
Fruits and vegetables	2.547	2.616
Other foods at home	3.516	4.208
Food away from home	6.687	6.811
Alcoholic beverages	1.195	1.309
Housing	40.891	37.081
Shelter	28.456	24.862
Renters' costs	9.147	8.240
Rent, residential	8.220	7.411
Other renters' costs	.928	.829
Homeowners' costs	18.489	15.944
Owners' equivalent rent	18.222	15.726
Fuel and other utilities	5.275	5.121
Fuels	3.627	3.539
Fuel oil, coal, and bottled gas	.062	.040
Fuel oil	.003	.000
Other fuels	.058	.038
Gas (piped) and electricity	3.565	3.499
Electricity	3.165	3.050
Utility (piped) gas	.401	.449
Household furnishings and operations	7.160	7.098
Apparel and upkeep	4.692	4.696
Apparel commodities	4.200	4.168
Men's and boys'	1.413	1.330
Women's and girls'	1.452	1.288
Footwear	.556	.509

Continued on next page.

Table 417.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1985 -- Con.

Group	CPI-U 1/	CPI-W 2/
EXPENDITURE CATEGORY -- Con.		
Transportation	16.233	18.176
Private	14.323	16.489
Motor fuel	4.606	5.478
Public	1.910	1.688
Medical care	6.464	6.308
Entertainment	4.806	4.408
Other goods and services	5.331	5.041
Personal care	1.793	1.694
COMMODITY AND SERVICE GROUP		
All items	100.000	100.000
Commodities	47.705	51.161
Food and beverages	21.583	24.290
Commodities less food and beverages	26.121	27.870
Nondurables less food and beverages	16.933	18.141
Durables	9.189	9.729
Services	52.295	47.839
Medical care services	5.584	5.419
Special indexes:		
All items less shelter	71.544	75.138
All items less medical care	93.536	93.692
All items less energy	91.767	90.983
Energy	8.233	9.017
Commodities less food	27.317	29.180
Nondurables less food	18.128	19.451
Nondurables	38.516	42.432
Services less rent of shelter	24.967	23.895
Services less medical care	46.712	42.420

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, printout.

Table 418.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND U.S. CITIES: JUNE 20, 1985 AND JUNE 19, 1986

[See headnote to following table]

Item	Honolulu price (dollars)		Honolulu as percent of U.S. average 1/	
	1985	1986	1985 2/	1986
Milk, homogenized, 1/2 gal.	1.59	1.39*	141	116
Eggs, Grade A, large, 1 doz.	0.99*	1.19	127	165
Cheese, sharp, 10 oz.	2.97	2.69	131	121
Margarine, 1 lb.	0.74	0.59	116	97
Bread, white, 24 oz. loaf	1.39	1.35	214	193
Flour, 5 lb.	1.41	1.09*	132	102
Cereal, Special K, 12 oz.	2.69	2.79	141	137
Sugar, 5 lb.	1.87	1.85	110	116
Instant coffee, 8 oz. jar	4.39*	6.63	112	129
Beans, dry, 1 lb	0.77	0.99	160	174
Rice, 2 lb.	1.79*	2.03	97	107
Mayonnaise, 1 qt.	2.09	1.69*	114	97
Peanut butter, 18 oz. jar	2.15*	1.99*	130	114
Tuna, 6 1/2 oz. can	1.09*	0.65*	149	97
Evaporated milk 3/	0.69	0.55	123	98
Cling peach halves, 29 oz. can	1.39	1.49	120	137
Pineapple, 20 oz. can	0.95	0.95	104	104
Ice cream, 1/2 gal.	1.79*	2.19*	120	143
Orange juice concentrate, 6 oz.	0.81	0.65	129	123
Broccoli spears, 10 oz. pkg.	1.15	0.99	162	146
Rump roast, boneless, 1 lb.	2.59	2.39	123	115
Sirloin steak, bone in, 1 lb. 4/	4.39	2.89	143	109
Ground beef, 1 lb.	1.49	1.69	128	146
Pork loin chops, 1 lb.	2.89	3.09	141	130
Ham, smoked, 1 lb.	1.59	1.69	134	135
Bacon, 1 lb.	1.79*	1.99*	85	94
Wieners, skinless, 1 lb.	1.99	1.49*	118	84
Chicken, whole, 1 lb.	0.79*	0.79	118	118
Potatoes, 5 lb.	1.99	1.89	140	167
Carrots, 1 lb.	0.65	0.49	171	120
Cabbage, 1 lb.	0.39	0.29	144	104
Lettuce, 1 head	0.89	0.69	151	115
Bananas, 1 lb.	0.50*	0.69	128	177
Tomatoes, 1 lb.	0.49*	0.69	84	103
Oranges, 5 lb.	3.95	2.85	161	131
Tax on above items	2.36	2.29	-	-

Footnotes and source on next page.

Table 418.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND U.S. CITIES: JUNE 20, 1985 AND JUNE 19, 1986 -- Con.

* Special sale price.
1/ U.S. averages based on data for 21 cities surveyed.
2/ Revised from Data Book 1985, table 404.
3/ 12 or 13 fluid oz. can in 1985; 13 fluid oz. can in 1986.
4/ Choice beef in 1985; not marked choice beef in 1986.

Source: Honolulu Advertiser, July 22, 1985, p. D-1, and July 29, 1986, B-1; percentages calculated by DPED.

Table 419.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1986

[June data for a "market basket" of 35 common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14	46.91	2	120.3	22	38.98
1980: June 19	49.60	2	121.0	22	40.98
1981: June 11	57.18	1	131.1	21	43.63
1982: June 3	56.72	1	126.2	21	44.93
1983: June 2	56.33	1	128.0	21	44.01
1984: May 31	59.10	1	127.0	21	46.52
1985: June 20	61.45	1	131.4	21	46.77
1986: June 19	59.64	1	125.3	21	47.58

1/ Average prior to 1985 excluded Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1; June 24, 1983, p. D-1; June 19, 1984, p. D-1; July 22, 1985, p. D-1; July 29, 1986, p. B-1.

Table 420.-- RETAIL FOOD PRICES, FOR KAUAI, HONOLULU, AND 20 MAINLAND CITIES: JUNE 1985

[Totals for a "market basket" of 32 common food items, comparable to survey reported in table 418]

Geographic area	Amount (dollars)	Index	
		Honolulu = 100	Mainland = 100
Kauai	64.14	110.7	145.4
Honolulu	57.95	100.0	131.4
20 Mainland cities	44.10	76.1	100.0

Source: Data from Kauai Office of Economic Development, reported in Honolulu Advertiser, August 21, 1985, p. A-7.

Table 421.-- COMPARATIVE ANNUAL LIVING COSTS IN HONOLULU AND OTHER URBAN AREAS: 1984

[For a four-person higher-income suburban family. Indexes are calculated with costs in the median U.S. urban area equal to 100. Shown separately for the three costliest urban areas]

Rank	Total budget 1/			Goods and services 2/	
	Urban area	Cost (dollars)	Index	Urban area	Index
1	San Jose, CA	57,975	122.6	Anchorage, AK	121.5
2	Honolulu, HI	57,944	122.5	Honolulu, HI	115.3
3	San Francisco, CA	56,981	120.5	Washington, DC	109.6

1/ Calculated for 100 U.S. urban areas. Based on a standard of living requiring an income of $46,000 in the median urban area.

2/ Calculated for 60 U.S. urban areas. Based on a standard of living requiring an income of $50,000 in the median urban area.

Source: Runzheimer and Company, Inc., Rochester, Wis., news releases dated May 30, 1984 and August 21, 1984.

Table 422.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	20,319	31,893	50,317	133	126	132
Total consumption	15,240	21,530	29,952	126	118	120
Food	6,108	7,626	9,708	134	131	132
At home	5,501	6,649	7,972	141	137	138
Away from home	607	977	1,736	93	100	110
Housing 2/	4,022	6,493	10,200	143	117	121
Shelter 2/	3,171	5,098	7,355	150	117	126
Renter costs 2/	3,171	3,991	5,836	150	146	136
Homeowner costs 2/	...	5,467	7,623	...	112	124
Housefurnishings and operations	851	1,395	2,499	121	116	110
Transportation 2/	1,288	2,421	3,220	98	102	105
Automobile owners	1,827	2,421	3,220	105	97	105
Clothing	1,042	1,432	2,010	111	107	103
Personal care	448	590	834	118	116	116
Medical care 2/	1,583	1,590	1,657	110	110	110
Other family consumption 2/	749	1,378	2,323	116	115	118
Other items 2/	716	1,137	1,966	115	111	114
Social security and disability payments	1,424	2,049	2,049	137	120	103
Personal income taxes	2,939	7,177	16,350	184	162	175

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first). For 1972-1980 estimates, see Data Book 1984, table 406.

2/ For details, see either the Data Book 1984, table 407, footnotes, or the original source.

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982).

Table 423.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	8,665	12,157	17,576	120	119	117
Total family consumption	8,292	11,426	16,284	120	119	117
Food	3,003	3,890	4,962	138	134	136
At home	2,836	3,531	4,245	141	137	139
Away from home	167	359	717	95	109	123
Housing 2/	2,587	3,827	5,985	109	113	113
Shelter 2/	1,860	2,356	3,423	103	107	110
Renter costs 2/	2,383	3,293	4,520	147	155	140
Homeowner costs 2/	1,512	1,851	2,953	79	83	97
Housefurnishings, operations	727	1,471	2,396	126	123	118
Transportation 2/	782	1,293	2,001	141	121	102
Clothing	260	428	615	107	105	98
Personal care	222	323	473	112	111	112
Medical care	1,111	1,120	1,129	102	103	103
Other family consumption 2/	327	545	1,119	119	119	124
Other items 2/	373	731	1,292	120	119	116

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

2/ For details, see either the Data Book 1983, table 345, footnotes, or the original source.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1981 (release, USDL: 82-266, July 30, 1982).

Table 424.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1983

Allowance category 1/	Oahu	Kauai	Maui County	Hawaii
Indexes 2/				
Local retail:				
Private housing	121.7	114.6	120.9	113.1
Federal housing	105.0	106.7	113.4	104.6
Commissary, PX:				
Private housing	111.8	113.1	...	...
Federal housing	95.1	105.1	...	...
Allowance rates 3/				
Local retail:				
Private housing	22.5	15.0	20.0	12.5
Federal housing	5.0	7.5	12.5	0
Commissary, PX:				
Private housing	12.5	12.5	...	...
Federal housing	0	5.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1983.

3/ Authorized allowance rate, expressed as a percentage differential, effective October 2, 1983.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances for Guam and the State of Hawaii and Post Differentials for Certain Pacific Islands," Federal Personnel Manual System, FPM Letter 591-47 (1983).

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were ten banks with 179 branches, eight savings and loan associations with 163 branches, four trust companies with seven branches, and 66 industrial loan or small loan licensees with 201 branch offices in Hawaii as of December 31, 1985. Deposits in Island banks reached $7.2 billion at the end of 1984, compared with $2.7 billion in 1975. Assets of savings and loan associations stood at $4.9 billion in December 1984, almost three times their 1975 level. There were 137 credit unions with combined assets of $1.5 billion at the end of 1985.

Approximately 256,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1985.

Life insurance in force in Hawaii at the end of 1984 amounted to $28 billion, more than twice the figure reported ten years earlier. For all 730 insurance companies doing business in the Islands, Hawaii premiums amounted to $967 million in 1984 and losses, claims, and benefits paid came to $530 million. Oahu fire losses in fiscal 1984 amounted to $11 million. Persons covered by the three major prepaid health insurance plans as of December 31, 1985, numbered 721,000, with annual membership dues of $420 million.

By mid-1985, more than 39,000 corporations and partnerships were registered to do business in Hawaii: 26,000 local ("domestic") corporations, 4,000 out-of-State ("foreign") corporations, and 9,000 partnerships. Business establishments with one or more employees in 1984 numbered 25,093; half had fewer than five employees. During fiscal 1985, 2,969 new local corporations were formed. Business receipts of corporations in 1983 exceeded $21 billion; business receipts of partnerships and proprietorships in the same year amounted to respectively $1.7 billion and $1.2 billion. Hawaii's largest corporation, Amfac, Inc., reported annual sales of $2.4 billion.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Financial Institutions, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, Dun and Bradstreet, Inc., local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1986.

Table 425.-- NUMBER OF FINANCIAL INSTITUTIONS, BY TYPES: 1979 TO 1985

[Excludes out-of-State branches of Hawaii-based institutions. As of December 31]

Year	Banks		Savings and loans associations		Trust companies		Industrial loan licensees	
	Firms	Branch offices	Associations	Branch offices	Firms	Branch offices	Firms	Branch offices
1979	9	159	9	136	4	7	77	247
1980	9	169	8	156	4	7	71	238
1981	9	171	9	163	4	7	76	236
1982	10	166	8	153	4	7	78	230
1983	10	162	8	166	4	7	72	209
1984	10	178	8	163	4	7	77	223
1985	10	179	8	163	4	7	66	201
ISLANDS: 1985								
Hawaii	6	20	7	19	2	2	10	19
Maui	7	21	7	16	1	1	13	19
Lanai	1	1	2	2	-	-	-	-
Molokai	1	1	2	2	-	-	1	1
Oahu	8	123	8	113	4	4	63	155
Kauai	4	13	6	11	-	-	5	7
Niihau	-	-	-	-	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, records.

Table 426.-- CHARACTERISTICS OF FINANCIAL INSTITUTIONS, BY TYPES: 1975 TO 1985

[Assets and deposits as of December 31]

Year	Banks			
	Assets ($1,000)	Deposits 1/ ($1,000)	Debits to demand deposits (million dollars)	Clearings (million dollars)
1975	3,013,876	2,680,733	42,198	23,663
1976	3,353,783	2,996,415	44,909	27,173
1977	3,609,198	3,232,769	50,493	30,438
1978	4,236,593	3,709,174	58,265	34,104
1979	4,898,049	4,362,971	72,493	39,746
1980	5,412,104	4,792,209	84,337	42,720
1981	6,210,547	5,433,332	90,281	43,334
1982	6,736,172	6,020,395	89,384	42,812
1983	7,378,726	6,584,371	89,147	43,852
1984	8,145,831	7,183,928	91,806	43,628
1985	(NA)	(NA)	95,843	44,697

Year	Savings and loan associations 2/		Trust company assets ($1,000)	Industrial loan licensee assets ($1,000)
	Assets ($1,000)	Withdrawable shares 3/ ($1,000)		
1975	1,787,124	1,370,804	52,008	777,910
1976	2,141,259	1,683,972	58,546	733,055
1977	2,535,006	2,030,848	58,003	762,108
1978	3,188,821	2,368,868	61,346	817,645
1979	3,775,671	2,557,345	53,418	980,495
1980	4,263,188	3,025,368	84,658	1,002,058
1981	4,528,178	3,098,834	106,149	1,100,895
1982	4,709,228	3,332,030	134,985	1,350,942
1983	4,713,164	3,613,952	43,853	1,043,626
1984	4,865,454	3,862,419	41,350	1,154,653
1985	(NA)	(NA)	40,715	1,286,792

NA Not available.
1/ Includes foreign deposits beginning in 1981.
2/ Hawaii offices only.
3/ Includes NOW accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions, Comparative Statements of Condition (semi-annual), monthly releases, and records.

Table 427.-- CREDIT UNIONS: 1980 TO 1985

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)	Number of credit union members
1980	156	800,472,936	714,315,177	380,147
1981	152	826,741,896	741,883,222	398,913
1982	147	936,381,493	841,538,942	414,891
1983	144	1,085,367,118	983,903,868	422,240
1984	142	1,237,993,756	1,113,377,400	424,459
1985	137	1,535,426,151	1,390,984,301	425,973

Source: Hawaii Credit Union League, records.

Table 428.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1985

Year	Shareholders	Year	Shareholders
1959	13,000	1980	175,000
1962	18,000	1981	174,000
1965	39,000	1983	234,000
1970	74,000	1985	256,000
1975	58,000		

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), Shareownership 1981 (p. 21), Shareownership 1983 (p. 24), and Shareownership 1985 (p. 24).

Table 429.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1984

[Includes data for all insurance companies, life or other, authorized in Hawaii]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1970	469	246,986	114,011	977,535
1971	485	276,707	119,880	1,168,952
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252
1980	594	682,306	352,515	2,561,217
1981	640	755,298	352,523	2,565,525
1982	699	795,786	436,094	2,731,165
1983	720	872,156	605,722	2,725,453
1984	730	967,105	530,200	2,704,084

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual).

Table 430.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1970 TO 1984

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1970	223	1,376,907	7,441,077	98,360	40,267
1971	233	1,565,272	8,127,837	106,524	45,301
1972	239	1,484,039	8,788,361	115,491	44,661
1973	262	1,935,643	9,433,897	120,229	47,980
1974	270	2,614,259	11,383,173	130,102	54,009
1975	279	2,046,479	12,650,488	138,597	53,291
1976	283	2,269,602	13,560,838	148,977	65,312
1977	285	2,432,658	14,680,847	161,725	63,040
1978	291	2,814,838	15,803,154	172,999	64,391
1979	311	2,999,500	17,122,778	186,487	74,627
1980	318	3,694,867	19,131,180	197,394	82,333
1981	346	4,995,919	21,287,888	204,049	98,942
1982	379	4,928,880	23,138,362	214,728	120,827
1983	390	6,230,150	26,133,708	227,848	141,096
1984	401	6,294,746	28,060,450	257,611	168,487

1/ Authorized in Hawaii, including fraternal benefit societies.

2/ Face value of insurance policies; includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 431.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1984

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	967,104,825	530,200,002
Life 1/	255,207,205	167,622,993
Fraternal	2,403,758	864,212
Fire, marine, casualty, and miscell.:		
Accident and health	89,035,332	44,792,252
Fire	11,865,632	4,999,244
Allied lines 2/	4,754,462	9,731,487
Homeowners multiple peril	47,158,731	16,470,204
Commercial multiple peril	40,855,712	15,650,183
Private passenger auto no-fault	36,938,165	25,232,499
Other private passenger auto liability	85,259,302	53,520,461
Commercial auto no-fault	3,862,343	4,197,266
Other commercial auto liability	25,593,536	21,439,740
Private passenger auto physical damage	69,807,817	30,608,687
Commercial auto physical damage	10,893,757	6,068,017
Workers' compensation	185,308,302	84,020,046
Other liability	27,857,844	24,619,752
Medical malpractice	11,042,722	3,505,780
Glass	202,050	58,460
Burglary and theft	741,590	108,569
Boiler and machinery	1,565,750	1,800,224
Fidelity and surety	11,068,981	3,192,526
Ocean marine	5,671,563	987,111
Inland marine	10,651,930	2,991,295
Earthquake	293,347	3,443
All other 3/	14,773,990	5,021,439
Surplus lines	14,291,004	2,694,112

1/ Excludes annuities and $1,149,047 in premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1985, p. 8.

Table 432.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1984

[Money amounts in millions of dollars. For insurance companies authorized to do business in Hawaii]

Subject	All companies	Domestic companies 1/	Foreign companies 2/	Alien companies 3/ (U.S. business only)
Number of companies, Dec. 31	730	20	690	20
Financial condition, Dec. 31:				
Assets	843,116.1	709.5	826,591.8	15,814.8
Liabilities exc. capital and surplus	755,107.2	564.7	739,495.3	15,047.2
Policyholder's surplus inc. capital	88,008.9	144.8	87,096.5	767.6
Capital	2,860.0	18.9	2,812.7	28.4
Net gain or loss	-7,306.5	-21.4	-7,249.2	-35.8
Hawaii business:				
Direct premiums written	1,041.7	325.7	685.6	30.4
Claims and benefits paid	627.4	180.4	419.8	27.2
Investments in Hawaii, Dec. 31 4/	2,704.1	182.8	2,501.4	19.9
Mortgage loans (principal indebtedness)	1,306.9	101.4	1,193.7	11.9
Collateral loans (amount lent)	1.6	1.5	0.1	-
State and county bonds 5/	256.6	15.1	241.5	-
Utilities stocks and bonds 5/	246.6	21.5	219.9	5.2
Industrial and misc. stocks and bonds 5/	750.6	37.1	710.9	2.6
Real estate 5/	141.7	6.2	135.3	0.2
Balances in Hawaii banks	20.0	16.1	3.3	0.5

1/ A domestic insurer is one formed under the laws of Hawaii.

2/ A foreign insurer is one formed under the laws of any State of the United States (including the District of Columbia and Commonwealth of Puerto Rico) other than Hawaii.

3/ An alien insurer is one formed under the laws of a nation other than the United States.

4/ Does not include balances in Hawaii banks.

5/ Market value less encumbrances for real estate.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1985, pp. 12, 14, 16, 17, and 36-39.

Table 433.-- PREPAID HEALTH PLANS: 1982 TO 1985

Subject	1982	1983	1984	1985
Hawaii Medical Service Association:				
Persons covered, Dec. 31 1/	527,319	535,303	548,015	567,210
Membership dues 2/ ($1,000)	237,923	275,030	290,855	330,045
Island Care:				
Persons covered, Dec. 31 1/	5,153	7,610	9,418	15,817
Membership dues 2/ ($1,000)	1,833	3,659	5,565	8,069
Kaiser Foundation Health Plan:				
Persons covered--1/				
Annual average	122,554	127,359	135,077	137,359
Dec. 31	122,732	131,304	137,683	138,051
Membership dues 2/ ($1,000)	50,816	60,146	72,281	81,759
Commercial carrier premiums for accident and health insurance ($1,000)	70,078	80,413	89,035	(NA)

NA Not available.

1/ Subscribers and dependents, whether on a group or individual basis.

2/ Includes both employers' and employees' contributions.

Source: Data provided by Hawaii Medical Service Association, Island Care, and Kaiser Foundation Health Plan, Inc.; Report of the Insurance Commissioner (annual).

Table 434.-- FIRE ALARMS, DEATHS, AND LOSSES: 1982 TO 1986

[State totals for years ended June 30]

Subject	1982	1983	1984	1985	1986
Fire alarms	8,422	9,171	8,656	8,586	8,021
Fires	6,048	6,964	6,716	6,511	6,030
False alarms	971	994	946	1,128	1,016
Needless alarms 1/	1,403	1,213	994	947	975
Fire deaths	11	13	12	4	2/ 8
Fire losses ($1,000)	16,361	14,519	16,856	16,509	(NA)

Footnotes and source follow next table.

Table 435.-- FIRE ALARMS, DEATHS, AND LOSSES, BY COUNTIES: 1985 AND 1986

[Years ended June 30]

Subject	State total	Honolulu	Hawaii	Kauai	Maui
1985					
Fire alarms	8,586	6,377	826	573	810
Fires	6,511	4,726	641	476	668
False alarms	1,128	926	66	76	60
Needless alarms 1/	947	725	119	21	82
Fire deaths	4	3	-	-	1
Fire losses ($1,000)	16,509	10,700	1,544	610	3,655
1986					
Fire alarms	8,021	5,885	883	601	652
Fires	6,030	4,367	630	519	514
False alarms	1,016	818	63	66	69
Needless alarms 1/	975	700	190	16	69
Fire deaths	2/ 8	2/ 7	1	-	-
Fire losses ($1,000)	(NA)	9,172	2,757	581	(NA)

NA Not available.

1/ Non-fire incidents, such as smoke scares or overheated food.

2/ Includes 2 possible homicides.

Source: Data from National Fire Information Reporting System (NFIRS) supplied by Honolulu Fire Department, November 21, 1986.

Table 436.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1975 TO 1984

[Data refer to establishments with taxable payrolls. Coverage excludes government and self-employed workers]

Year	Number of employees 1/	Payroll ($1,000)		Number of establishments, by employment-size class 2/								
		First quarter	Annual	Total	1 to 4	5 to 9	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1975	252,254	543,590	2,274,957	17,095	9,041	3,317	2,305	1,546	565	226	56	39
1976	252,252	577,390	2,412,122	17,271	9,135	3,359	2,332	1,544	566	248	49	38
1977	263,079	630,090	2,637,726	18,660	9,942	3,741	2,397	1,642	589	257	52	40
1978	282,256	699,638	2,966,228	19,222	9,849	3,991	2,695	1,721	602	264	57	43
1979	302,763	809,676	3,451,980	20,621	10,568	4,285	2,866	1,864	653	281	54	50
1980	314,106	930,312	3,849,636	21,125	10,928	4,346	2,868	1,906	666	311	55	45
1981	312,195	984,003	4,092,561	21,264	10,969	4,337	2,973	1,905	663	309	63	45
1982	309,546	1,026,323	4,264,863	21,655	11,095	4,592	2,921	2,005	648	296	56	42
1983	308,627	1,094,458	4,505,090	24,519	13,320	5,039	3,093	2,001	667	305	51	43
1984	318,635	1,192,429	4,824,535	25,093	13,588	5,225	3,167	1,990	709	313	52	49

1/ For week including March 12.

2/ Data for 1983 and 1984 refer to establishments active anytime during the year; data for earlier years refer to establishments in business at the end of the year.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 437.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1983 AND 1984

[Excludes government employees and self-employed persons]

Year and county	Number of establishments 1/	Number of employees 2/	Payroll ($1,000)	
			First quarter	Annual
1983				
State total	24,519	308,627	1,094,459	4,505,091
Hawaii	2,513	23,229	71,830	296,544
Honolulu	18,611	247,118	903,964	3,721,659
Kauai	1,135	12,297	38,496	157,925
Maui	2,257	25,959	80,068	328,586
Statewide	3	24	101	377
1984				
State total	25,093	318,635	1,192,430	4,824,535
Hawaii	2,555	23,763	78,082	307,891
Honolulu	18,982	256,901	989,573	3,999,562
Kauai	1,146	11,631	38,136	157,264
Maui	2,406	26,324	86,518	359,493
Statewide	4	16	121	326

1/ Data refer to establishments active anytime during the year.
2/ For week including March 12.
Source: U.S. Bureau of the Census, County Business Patterns, 1984, Hawaii, CBP-84-13 (July 1986), p. 17.

Table 438.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1983 AND 1984

[Excludes government and self-employed workers]

Major industry group	Number of establishments 1/	Number of employees 2/	Annual payroll ($1,000)
1983			
Total	24,519	308,627	4,505,090
Agricultural services, forestry, fisheries	239	1,653	19,822
Mining	14	143	3,779
Contract construction	1,768	18,902	454,758
Manufacturing 3/	958	22,860	379,362
Food and kindred products	218	10,343	164,184
Apparel and other textile products	153	3,351	31,844
Transportation, other public utilities	1,037	27,923	598,203
Wholesale trade	1,834	17,666	316,840
Retail trade 3/	6,636	86,103	849,890
Eating and drinking places	1,882	34,866	252,373
Finance, insurance, and real estate	3,156	29,488	460,460
Services 3/	7,893	102,070	1,397,672
Hotels and other lodging places	239	24,258	287,655
Health services	1,811	20,744	399,396
Nonclassifiable establishments	984	1,819	24,306
1984			
Total	25,093	318,635	4,824,535
Agricultural services, forestry, fisheries	231	1,857	21,041
Mining	16	192	4,902
Contract construction	1,674	17,438	402,872
Manufacturing 3/	927	21,818	375,274
Food and kindred products	220	9,845	157,055
Apparel and other textile products	150	3,299	33,238
Transportation, other public utilities	1,058	29,993	653,615
Wholesale trade	1,766	18,002	346,545
Retail trade 3/	6,473	87,167	909,357
Eating and drinking places	1,857	35,230	268,488
Finance, insurance, real estate	3,125	29,979	499,845
Services 3/	7,869	106,179	1,541,103
Hotels and other lodging places	241	25,698	328,932
Health services	1,852	21,696	434,977
Nonclassifiable establishments	1,954	6,010	69,981

Footnotes and source on next page.

Table 438.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1983 AND 1984 - Con.

1/ Data refer to establishments active anytime during the year.
2/ For week including March 12.
3/ Includes subgroups not shown separately.
Source: U.S. Bureau of the Census, County Business Patterns, 1984, Hawaii, CBP-84-13 (July 1986), pp. 1-2.

Table 439.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1984

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	25,093	318,635	4,824,535
1 to 4	13,588	24,741	406,686
5 to 9	5,225	34,344	460,619
10 to 19	3,167	42,467	563,922
20 to 49	1,990	60,187	839,087
50 to 99	709	47,998	694,910
100 to 249	313	44,828	719,022
250 to 499	52	18,835	286,615
500 to 999	34	22,638	363,652
1,000 or more	1/ 15	22,597	490,023

1/ 1,000-1,499 employees, 11 establishments; 1,500-2,499, 3 establishments; 2,500-4,999, 1 establishment.
Source: U.S. Bureau of the Census, County Business Patterns, 1984, Hawaii, CBP-84-13 (July 1986), pp. 3, 11, and 16.

Table 440.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1983 TO 1986

[Excludes eleemosynary corporations]

Subject	1983	1984	1985	1986
Domestic (Hawaii) corporations:				
Formed 1/	2,773	2,770	2,969	3,010
Dissolved or merged 2/	1,846	4,103	2,617	2,183
On record, June 30	27,343	26,010	26,362	27,189
Foreign (non-Hawaii) corporations:				
Qualified 1/	480	495	581	596
Withdrawn, merged, or cancelled 2/	326	313	320	371
On record, June 30	3,877	4,059	4,320	4,545
Partnerships:				
Registered 1/	1,798	1,430	1,388	1,557
Dissolved or cancelled 2/	1,186	1,249	1,565	1,505
On record, June 30	8,820	9,001	8,824	8,876

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, November 20, 1986.

Table 441.-- CHARACTERISTICS OF CORPORATIONS, PARTNERSHIPS, AND PROPRIETORSHIPS: 1979, 1981, AND 1983

[Money amounts in millions of dollars]

Subject	1979	1981	1983
CORPORATIONS 1/			
Number of corporations	13,285	16,585	18,420
Taxable	7,463	7,536	8,040
Nontaxable	5,822	9,049	10,380
Business receipts	13,442	17,878	21,072
Taxable corporations	9,538	10,941	12,368
Nontaxable corporations	3,904	6,937	8,704
Taxable income, excluding net losses 2/	706.9	706.5	682.8
PARTNERSHIPS 3/			
Number of partnerships	...	7,107	7,378
With net profit	...	3,331	3,453
With net loss	...	3,776	3,925
Number of partners	...	105,983	83,313
Business receipts	...	1,661.8	1,737.9
Businesses with net profit	...	1,018.0	1,065.8
Businesses with net loss	...	643.8	672.2
Net profit reported	...	311.8	358.1
Net loss reported	...	346.0	366.3
PROPRIETORSHIPS			
Number of proprietorships	46,029	54,473	54,182
With net profit	32,357	33,475	36,330
With net loss	13,672	20,998	17,852
Business receipts	1,051.0	868.5	1,236.2
Businesses with net profit	896.9	717.3	1,050.6
Businesses with net loss	154.1	151.2	185.7
Net profit reported	263.5	184.4	254.0
Net loss reported	35.0	58.4	63.9

1/ Includes domestic, foreign, and small business corporations.

2/ Includes taxable income reported by small business corporations, taxable to individual stockholders only.

3/ Not available before 1981.

Source: Hawaii State Department of Taxation, *Hawaii Income Patterns for Corporations* (1979), *Proprietorships* (1979), *Corporation, Proprietorship, Partnership* (1981 and 1983), and records.

Table 442.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: MOST RECENT AVAILABLE YEAR

[Data may include sales and employment on the Mainland or abroad]

Company	Year founded 1/	Sales (million dollars) 2/	Employees
Amfac 3/	1849	2,405	22,600
Castle & Cooke	1851	1,681	35,000
Pacific Resources Inc. (PRI)	1904/1970	1,368	850
Hawaiian Electric Industries	1891/1983	648.3	1,738
Chevron USA (Hawaii Division)	1904	600	280
Alexander & Baldwin	1870/1900	506.3	3,300
Bancorp Hawaii	1897/1971	459	3,400
Hawaiian Telephone	1883	398.4	4,309
Hawaii Medical Service Assn. (HMSA)	1938	330	780
First Hawaiian, Inc.	1858/1974	298.1	2,132

1/ If two years are given, the first is the founding date of the original company, the second is when it became a holding company, sold, or legally changed its name.

2/ Latest available data. May be fiscal year or calendar year.

3/ Reflect total company's sales and employment; Hawaii sales total $470 million and employment, about 9,000 workers.

Source: Michael Schmicker, "Hawaii Business Top 250," Hawaii Business, August 1986, pp. 22-23, 29-30.

Table 443.-- NET INCOME OR LOSS AND TOTAL REVENUES OF SELECTED COMPANIES: 1984 AND 1985

[Based on 1985 data for reporting companies]

Company	Net income or loss ($1,000)		Revenues (1,000,000)	
	1984	1985	1984	1985
Largest net incomes:				
Alexander & Baldwin	66,590	83,590	486	506.3
Hawaiian Telephone	50,709	49,025	381.5	398.4
Castle & Cooke 1/	18,144	46,433	1,680.6	1,608.6
Largest net losses:				
Mid Pacific Air	31	9,225	36.4	39.1
Barnwell Industries 2/	4,605	4,230	10.8	14.5
Territorial Savings	463	2,380	34.4	37.4

1/ 1984 figures are for fiscal year ending December 29; 1985, for fiscal year ending December 28. Unaudited proforma figures reflect merger of Castle & Cooke and Flexi-Van Corp.

2/ Fiscal year ending September 30.

Source: Michael Schmicker, "Hawaii Business Top 250," Hawaii Business. August 1986, p. 36.

Table 444.-- WOMEN-OWNED BUSINESSES: 1982

[Includes partnerships in which at least half of the partners were women, and corporations in which 50 percent or more of the shares were owned by women. For detail by industry divisions, counties, and selected urban places, see source]

Subject	State total	Oahu
All firms:		
Number	16,821	12,506
Sales and receipts ($1,000)	356,498	264,298
Firms with paid employees:		
Number	1,248	928
Employees for pay period incl. March 12	5,538	4,055
Annual payroll ($1,000)	39,356	28,313
Sales and receipts ($1,000)	206,581	153,445

Source: U.S. Bureau of the Census, 1982 Economic Censuses, WB82-1, Women-Owned Businesses (April 1986), pp. 13 and 33.

Table 445.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1978 TO 1983

Subject	1978	1979	1980	1981	1982	1983
Number of failures	31	38	83	89	146	145
Current liabilities (million dollars)	9.0	8.7	21.6	23.5	58.3	34.2

Source: Data from Dun and Bradstreet Corporation, cited in Statistical Abstract of the United States for 1980-1986.

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the Postal Service and of various communications media: telephone, telegraph, radio, television, newspapers and periodicals, and books. Sections 12 and 15 contain employment and payrolls data for communications establishments.

Hawaii is served by all major communications media. In 1986 it had 143 post offices and stations handling 360 million pieces of mail and accounting for postal receipts in excess of $102 million. There were 479,000 telephone access lines in service, 343,000 telephone homes, about 2.2 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1984 totaled 112,000. The 46 commercial, public and educational radio stations in the Islands in 1986 included 26 on the regular broadcast band and 20 FM stations. The State also had 15 television stations (13 commercial and 2 public), including satellites but excluding translators. Nine cable TV companies served 220,000 subscribers. An estimated 97 percent of all households in the State had television sets, and the average prime-time TV audience in February 1986 numbered 194,000 households. Island publishers printed nine daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 188,000 in 1985-1986.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, the CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other states and for the nation as a whole are carried in Statistical Abstract of the United States: 1986, Section 19.

Table 446.-- POSTAL SERVICE: 1970 TO 1986

[For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Number, end of fiscal year 1/		Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
	Post offices	Stations		
1970	80	...	20,840	187
1971	80	...	21,976	201
1972	78	...	23,434	215
1973	77	...	27,100	226
1974	76	...	29,663	233
1975	76	...	33,549	238
1976	76	...	37,433	242
1977	76	...	43,790	249
1978	76	...	49,198	267
1979	76	...	55,267	276
1980	76	...	58,413	298
1981	76	...	67,055	293
1982	76	...	77,424	290
1983	76	3/ 50	80,943	305
1984	76	4/ 54	84,733	317
1985	76	64	94,975	339
1986	76	67	102,440	360

1/ Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices and both classified and contract stations (classified stations are those staffed by career postal employees; contract stations, those operated under a contractual agreement between the Postal Service and an individual contractor). Station counts not available before 1983.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

3/ April 15.

4/ June 30.

Source: U.S. Postal Service, Honolulu Field Division, records.

Table 447.-- STATISTICAL SUMMARY FOR SPECIFIED ZIP CODE AREAS: 1980 AND 1986

[All addresses in the United States are identified geographically, for postal purposes, according to ZIP Code areas. This table presents data for representive areas. Comparable statistics for other ZIP Code areas in Hawaii, and a map of ZIP Code areas on Oahu, appear in the report cited in the source reference]

Subject	State total	Specified Zip Code areas			
		Downtown Honolulu 96813	Waikiki 96815	Kailua 96734	Hilo 96720
1986:					
Residences	298,122	7,115	22,445	15,898	12,216
P.O. boxes 1/	74,657	543	-	1,558	846
Businesses	25,370	3,956	1,922	864	1,634
1980:					
Population	964,691	17,612	31,123	47,705	38,537
Households	294,934	6,941	15,516	13,992	12,226
Median age (years)	28.4	33.2	39.6	27.7	29.0
Race: Percent Japanese	24.9	30.9	24.9	13.5	37.1
Persons per household	3.15	2.51	2.06	3.39	3.07
Percent foreign born	14.2	15.3	19.9	6.1	7.4
Percent different house in 1975	50.7	49.8	57.9	51.0	48.0
Persons 25 years and over: Percent high school graduates	73.8	70.9	79.2	84.2	71.3
Civilian labor force: Percent unemployed	4.7	4.6	4.7	4.4	6.4
Median household income (dollars)	20,473	17,630	16,292	25,825	18,050
Housing units:					
Number	334,235	7,317	24,556	14,456	12,807
Percent in 1-unit structures	51.7	32.7	9.0	74.7	75.2
Percent vacant	11.4	5.2	36.7	3.5	4.9
Renter occupied units:					
Percent of occupied units	48.3	60.0	64.7	37.3	40.1
Median rent (dollars)	271	297	339	366	261

1/ Excludes 18,903 Post Office boxes in ZIP codes unassigned in the 1980 Census.

Source: Hawaii State Census Statistical Areas Committee, Characteristics of ZIP Code Areas, 1980 (Report CTC-62, May 28, 1985); U.S. Postal Service, Carrier Route Information System Regional tape (February 1986), special tabulation by DPED.

Table 448.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: SEPTEMBER 30, 1986

Island	Total	Post offices 1/			Stations	
		1st class	2nd class	3rd class	Classified 2/	Contract 3/
State total ..	143	33	27	16	29	38
Hawaii	35	9	11	8	2	5
Maui	18	7	3	-	2	6
Lanai	1	-	1	-	-	-
Molokai	5	1	-	4	-	-
Oahu	64	12	4	1	24	23
Kauai	20	4	8	3	1	4
Niihau	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu Field Division, data supplied October 22, 1986.

Table 449.-- TELEPHONE ACCESS LINES, BY ISLAND AND TYPE: 1981 TO 1985

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	All access lines	By island		By type		
		Oahu	Other islands	Residence	Business	Other types
1981	431,893	324,968	106,925	314,355	95,000	22,538
1982	445,452	334,150	111,302	323,588	98,691	23,173
1983	458,339	342,094	116,245	332,051	102,923	23,365
1984	472,229	348,936	123,293	339,296	107,830	25,103
1985	479,253	352,674	126,579	342,711	111,792	25,165

Source: Hawaiian Telephone Company, data provided March 24, 1986.

Table 450.-- TELEPHONES IN SERVICE AND RESIDENCE AND BUSINESS MAIN STATIONS: 1975 TO 1981

[As of December 31. Data limited to the Hawaiian Telephone Company. Because of deregulation of the telephone industry, the series reported in this table after 1981 no longer included all or almost all of the telephones in Hawaii, and moreover became subject to disclosure rules that precluded their publication for subsequent years]

Year	Telephones in service			Residence main stations	Business main stations
	State total	Oahu	Other islands		
1975	567,685	460,602	107,083	250,319	64,522
1976	596,952	480,937	116,015	262,982	66,357
1977	627,848	501,914	125,934	273,860	67,869
1978	659,141	523,472	135,669	285,948	71,892
1979	684,812	539,582	145,230	296,433	76,533
1980	712,095	555,790	156,305	303,928	79,565
1981	728,352	563,630	164,722	311,430	81,499

Source: Hawaiian Telephone Company, records, for 1975 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 451.-- TELEPHONE CALLS: 1975 TO 1985

[In thousands]

Year	Local 1/		Interisland 2/		Transpacific (paid) 2/	
	Originating	Completed	Paid 3/	Completed	Outgoing	Incoming and outgoing 4/
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)
1983	1,928,486	1,446,365	(NA)	(NA)	(NA)	(NA)
1984 5/ .	2,050,778	1,538,084	(NA)	(NA)	(NA)	(NA)
1985	2,225,943	1,669,457	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was discontinued.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

5/ Revised from Data Book 1985, table 430.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 452.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was discontinued]

Island	Telephones in service, Dec. 31	Main stations, Dec. 31		Inter-island calls 1/
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Oahu	563,630	241,261	62,304	5,539,848
DATS 2/	27,676	-	12,497	...
Other Oahu	535,954	241,261	49,807	...
Other islands	164,722	70,169	19,195	6,452,995
Hawaii	70,183	30,735	8,440	2,698,799
Maui	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Defense Administrative Telephone System.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 453.-- TELEGRAPH MESSAGES: 1974 TO 1984

Year	Total messages	From Hawaii to Mainland: Total from Hawaii	From Hawaii to Mainland: Originated in Hawaii	From Hawaii to Mainland: Originated elsewhere	From Mainland to Hawaii: Total to Hawaii	From Mainland to Hawaii: Originated on Mainland	From Mainland to Hawaii: Originated elsewhere
1974 ..	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975 ..	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976 ..	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977 ..	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978 ..	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979 ..	262,888	134,265	50,522	83,743	128,623	65,598	63,025
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178
1982 ..	168,501	88,325	27,951	60,374	80,176	31,227	48,949
1983 ..	145,990	71,428	21,739	49,689	74,562	21,777	52,785
1984 ..	112,440	47,765	15,061	32,704	64,675	16,024	48,651

Source: Federal Communications Commission, Common Carrier Bureau, data provided February 10, 1986.

Table 454.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1984 AND 1985

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue 2/ ($1,000)	
	1984	1985	1984	1985	1984	1985
State total	9	9	210,527	220,443	24,919	33,020
Hawaii	3	3	17,701	18,433	2,450	4,182
Maui	2	2	18,180	20,013	2,218	2,226
Honolulu	3	3	167,216	173,129	18,658	24,706
Kauai	2	2	7,430	8,868	1,594	1,906

1/ State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

2/ Basic service only.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 455.-- RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION, 1926 TO 1986, AND BY COUNTIES, 1986

Date and county	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1926: Jan. 1	1	-	-	-	-	-
1941: Jan. 1	4	-	-	-	-	-
1956: Jan. 1	13	1	6	-	2	-
1971: Jan. 1	25	4	10	-	1	2
1986: June 30	26	18	13	-	2	2
COUNTIES: 1986						
Hawaii	4	4	4	-	-	-
Maui	3	6	3	-	-	1
Honolulu 2/	17	7	6	-	2	1
Kauai	2	1	-	-	-	-

1/ Includes satellites but excludes translators and cable television.

2/ Includes one commercial AM station with studio on Oahu but transmitter on Molokai.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 482; Federal Communications Commission, Field Operations Bureau, Honolulu, July 24, 1986.

Table 456.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREA: 1985 AND 1986

Subject	January 1985			January 1986		
	State total	Oahu	Other islands	State total	Oahu	Other islands
All households	334,700	258,700	76,000	336,000	258,700	77,300
With television .	323,720	251,920	71,800	324,820	251,070	73,750
Percent	96.7	97.4	94.5	96.7	97.1	95.4

Source: Nielsen Station Index, Honolulu, Hawaii, February 1985 and February 1986.

Table 457.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION BY TIME OF DAY: 1980 TO 1986

[In thousands. Mean number of viewers, Sunday through Saturday. For 1974-1979, see Data Book 1985, table 436]

Year and month	Sign-on to sign-off 7 A.M. to 1 A.M.		Prime time 6:30 P.M. to 10 P.M.	
	Households 1/	Persons 2/	Households 1/	Persons 2/
1980: Feb.	78	105	169	258
May	74	101	156	240
Nov.	73	128	150	300
1981: Feb.	75	134	158	319
May	79	137	164	320
Nov.	85	146	165	327
1982: Feb.	81	139	166	327
May	75	129	148	293
Nov.	84	142	174	335
1983: Feb.	86	147	182	357
May	85	142	174	330
Nov.	88	147	176	334
1984: Feb.	86	149	182	354
May	82	139	163	317
Nov.	93	158	188	357
1985: Feb.	90	150	187	360
May	87	143	175	332
Nov.	92	156	190	361
1986: Feb.	91	158	194	377
May	88	144	179	331

1/ Average number with a TV set turned on.

2/ Average number of persons, 2 years and older, in TV households that are viewing any station.

Source: Nielsen Station Index, Honolulu, Hawaii, issued three times annually.

Table 458.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS: 1982-83 TO 1985-86

[Averages for 12-month periods ended in March. Foreign-language daily newspapers, not included in this table, are the Hawaii Hochi, Japanese and English; The Korean Times and Han Kook Ilbo, Korean; and United Chinese Press, Chinese]

Newspaper	1982-83	1983-84	1984-85	1985-86
Daily:				
Honolulu Advertiser 1/	84,882	85,593	86,998	84,782
Honolulu Star-Bulletin 2/	112,912	111,825	110,045	102,734
Hawaii Tribune-Herald (Hilo) 3/	19,103	19,438	19,868	19,946
West Hawaii Today (Kailua-Kona) 4/ ..	6,599	6,762	7,138	7,680
Maui News (Wailuku) 3/	14,323	15,468	15,983	15,506
Garden Island (Lihue) 5/	9,363	9,649	9,550	9,479
Sunday morning:				
Sunday Star-Bulletin and Advertiser .	197,142	197,793	198,184	195,344
Hawaii Tribune-Herald (Hilo)	21,094	21,892	22,605	22,663
West Hawaii Today (Kailua-Kona) 6/ ..	...	...	6,626	7,431
Maui News (Wailuku) 7/	...	...	14,668	14,684
Garden Island (Lihue) 8/	...	...	8,900	8,884

1/ Mornings, Monday through Saturday.
2/ Afternoons, Monday through Saturday.
3/ Afternoons, Monday through Friday.
4/ Mornings, Monday through Friday.
5/ Afternoons, 4 times weekly (Monday, Tuesday, Wednesday, and Friday).
6/ Beginning April 29, 1984.
7/ Beginning September 1984.
8/ Beginning July 1, 1984.

Source: Audit Bureau of Circulations data provided to DPED by newspaper publishers.

Table 459.-- PERIODICALS PUBLISHED IN HAWAII: 1985

Frequency	Newspapers		Magazines and other periodicals 1/
	English	Foreign language	
Daily, 5 to 7 times weekly ...	6	3	-
2 to 4 times weekly	-	-	1
Weekly	9	1	15
Semi-monthly or biweekly	3	3	18
Monthly	2	-	53
1 to 10 times annually	-	-	40

1/ Includes regularly published magazines, company and in-house publications, labor publications, educational publications, military and federal publications, and special interest publications. Does not include publications that are updated as required, or other irregular publications. Not comparable to previous years' data.

Source: Aloha United Way, Hawaii Media Guide, April 1985.

Table 460.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1984 TO 1986

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1984	716	552	38	9	233,859	1,634,180
1985	745	580	29	10	235,853	1,864,607
1986	783	610	38	8	270,676	2,083,167

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, Annual Report (annual) and records.

Table 461.-- COMMUNICATION AND COMMUNICATION-RELATED ESTABLISHMENTS: 1984

SIC code	Industry	No. of establishments	SIC code	Industry	No. of establishments
271	Newspapers	24	482	Telegraph communic. ...	3
272	Periodicals	15	483	Radio, TV broadcast. ..	38
273	Books	11	489	Commun. services, n.e.c	26
274	Miscell. publishing ...	8	731	Advertising	51
481	Telephone communic. ...	18	7311	Advertising agencies	42

Source: U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986), pp. 4-9.

Table 462.-- ADVERTISING AGENCIES (SIC 7311), FOR OAHU: 1982

[Includes only establishments with payroll]

Subject	Amount	Subject	Amount ($1,000)
Establishments	43	Gross sales of (billings for) advertising media	65,624
Receipts ($1,000)	18,923		
Commission on media sales ..	10,633	Gross billings for advertising materials and other outside production services	21,016
Service fees	3,373		
Other sources	4,917		

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), table 6.

Table 463.-- POSTAGE RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1976 TO 1986

[In cents. As of July 1]

Year	Domestic first-class postage rates			Newspaper price 1/	
	Letters		Postal and post cards		
	First ounce	Each added ounce		Daily	Sunday
1976	13	11	9	20	50
1977	13	11	9	20	50
1978	15	13	10	20	50
1979	15	13	10	25	60
1980	15	13	10	25	60
1981	18	17	12	25	75
1982	20	17	13	25	100
1983	20	17	13	25	100
1984	20	17	13	25	100
1985	22	17	14	35	100
1986	22	17	14	35	100

1/ Street sales, for the *Honolulu Advertiser*, *Honolulu Star-Bulletin*, and *Sunday Star-Bulletin and Advertiser*.

Source: Postal rates from *Statistical Abstract of the United States: 1986*, p. 544, as updated. Newspaper rates from nameplates.

Table 464.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1976 TO 1986

[In dollars. As of July 1. Including state and federal excise tax where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line 3/
		Direct dialing 1/	Through operator 2/	Direct dialing 1/	Through operator 2/	
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31
1984 ..	0.15	1.07	1.91	1.66	3.25	11.74
1985 ..	0.15	1.14	2.06	1.54	3.13	12.77
1986 4/	0.25	1.45	2.06	1.32	2.91	14.10

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1986, the monthly rental charge for a standard dial desk-top telephone was $1.92, and the federal subscriber line charge was $2.00.

4/ AT&T Communications, Inc., rates quoted for Honolulu to California calls.

Source: Hawaiian Telephone Company, records, and AT&T Communications, Inc., records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, research and development, and scientific resources. Related series are cited in Sections 12 (on utility employment), 14 (prices), and 18 (gasoline consumption).

Total energy consumption in 1984 amounted to 234 trillion British thermal units, compared with 215 trillion BTU a decade earlier. Transportation, including aviation fuels, accounted for 63 percent of the 1984 total. Total expenditures for fuels and electricity in 1985 totaled almost $2.0 billion.

Electricity sales exceeded 6.6 billion kilowatt-hours in 1985, a total that has increased 24 percent since 1975. Manufactured gas sales reached 31 million therms in 1985, 12 percent below the figure ten years earlier. Residential rates in 1985 averaged 11.4 cents per kilowatt-hour and $1.77 per therm, both more than double the corresponding rates a decade earlier. Average residential use (6,590 kWh and 202 therms in 1985) has declined significantly in recent years. By 1985, almost 11 percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1985 was approximately 971 million gallons, compared with 839 million in 1975. The 1985 total included 327 million gallons of gasoline, 538 million of aviation fuel, and 102 million of diesel oil. The average price for automotive gasoline rose from 78 cents per gallon in June 1978 to $1.58 three years later, then fell to $1.21 by June 1986.

The State is well served with scientific resources. Especially noteworthy is the cluster of large telescopes used for astronomical observations at the summit of Mauna Kea -- nine major facilities, including those under construction. Federal research and development obligations in Hawaii reached $71 million in 1983. Thirty-three patents were granted to Hawaii residents in 1985.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, U.S. Bureau of Labor Statistics, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs and its Division of Consumer Advocacy, Hawaii State Department of Planning and Economic Development Energy Division, UH Institute for Astronomy, and individual utility companies. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1986, Sections 20 and 21.

Table 465.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS): 1960 TO 1984

[Revised from Data Book 1985, table 442]

Year	Petroleum 1/ (1,000 barrels)	Hydro-electric power 2/ (million kWh)	Geothermal energy (million kWh)	Other 3/ (million kWh)
1960	17,067	27	0	0
1961	20,690	24	0	0
1962	19,733	20	0	0
1963	20,672	23	0	0
1964	22,117	115	0	0
1965	23,178	105	0	0
1966	25,823	112	0	2
1967	29,125	108	0	0
1968	32,385	94	0	30
1969	33,832	100	0	29
1970	34,806	108	0	24
1971	37,432	89	0	15
1972	38,390	91	0	18
1973	39,300	95	0	22
1974	37,286	92	0	30
1975	37,598	89	0	25
1976	37,965	93	0	29
1977	40,229	86	0	26
1978	40,820	84	0	0
1979	44,521	90	0	0
1980	43,500	86	0	0
1981	42,121	80	0	15
1982	41,562	90	0	26
1983	41,206	84	0	28
1984	39,814	82	21	28

1/ For data by type of petroleum, see source.

2/ Includes industrial and electric utility production.

3/ Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity. Excludes coal, natural gas, and nuclear electric power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1984 (April 1986), p. 79.

Table 466.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU): 1960 TO 1984

[Revised from Data Book 1985, table 443]

Year	Total energy consumed 1/	Petroleum 2/	Hydroelectric power 3/	Geothermal energy	Coal, nuclear power, and natural gas 4/	Other types 5/
1960	95.8	95.5	0.3	0.0	0.0	0.0
1961	117.1	116.8	0.3	0.0	0.0	0.0
1962	112.2	112.0	0.2	0.0	0.0	0.0
1963	118.1	117.8	0.2	0.0	0.0	0.0
1964	127.9	126.7	1.2	0.0	0.0	0.0
1965	134.2	133.1	1.1	0.0	0.0	0.0
1966	149.2	148.0	1.2	0.0	0.0	(Z)
1967	168.4	167.2	1.1	0.0	0.0	0.0
1968	187.4	186.1	1.0	0.0	0.0	0.3
1969	194.9	193.6	1.0	0.0	0.0	0.3
1970	200.6	199.2	1.1	0.0	0.0	0.3
1971	215.2	214.1	0.9	0.0	0.0	0.2
1972	221.1	220.0	0.9	0.0	0.0	0.2
1973	226.5	225.3	1.0	0.0	0.0	0.2
1974	214.7	213.5	1.0	0.0	0.0	0.3
1975	216.8	215.6	0.9	0.0	0.0	0.3
1976	219.2	217.9	1.0	0.0	0.0	0.3
1977	232.5	231.3	0.9	0.0	0.0	0.3
1978	235.9	235.0	0.9	0.0	0.0	0.0
1979	255.4	254.5	0.9	0.0	0.0	0.0
1980	253.3	249.2	0.9	0.0	3.2	0.0
1981	245.9	241.9	0.8	0.0	3.0	0.2
1982	241.0	236.9	0.9	0.0	2.9	0.3
1983	237.1	233.2	0.9	0.0	2.8	0.3
1984	233.7	229.7	0.8	0.4	2.4	0.3

Z Less than 0.05.

1/ Totals may not equal sum of components due to independent rounding.

2/ For data by type of petroleum, see source.

3/ Includes industrial and electric utility production.

4/ Data for 1980-1984 are apparently in error.

5/ Wood, waste, wind, photovoltaic, and solar thermal energy sources consumed at electric utilities to produce electricity.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1984 (April 1986), p. 79.

Table 467.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1984

[Trillion Btu. Revised from Data Book 1985, table 444]

Year	Consumption 1/				Electric utilities 2/
	Residential	Commercial	Industrial	Transportation	
1960	7.3	5.2	18.2	65.2	17.6
1961	7.5	5.4	26.8	77.4	19.4
1962	8.0	5.5	28.9	69.8	21.4
1963	8.9	6.0	29.6	73.5	24.2
1964	9.6	6.6	32.4	79.2	26.7
1965	10.1	6.8	34.7	82.6	27.6
1966	10.8	7.4	36.0	95.1	29.7
1967	12.1	8.0	39.1	109.2	31.3
1968	13.1	8.8	38.9	126.7	35.0
1969	14.9	9.8	41.0	129.2	38.7
1970	16.4	11.6	43.9	128.7	43.2
1971	17.8	11.4	43.7	142.3	47.7
1972	19.6	12.7	49.0	139.7	54.1
1973	20.0	13.5	49.2	143.8	55.6
1974	20.3	13.3	49.5	131.7	57.5
1975	19.6	13.8	49.9	133.4	58.8
1976	21.3	15.3	50.9	131.7	62.5
1977	21.8	16.8	52.6	141.3	65.2
1978	21.8	17.4	52.1	144.6	66.8
1979	22.9	18.1	58.0	156.3	67.7
1980	23.3	20.9	62.4	146.7	69.7
1981	23.0	18.9	60.5	143.4	69.9
1982	21.6	17.7	65.9	135.9	66.9
1983	22.1	17.8	51.5	145.7	68.6
1984	21.4	18.7	46.5	147.1	70.6

1/ Excludes small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities. Includes power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

2/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1984 (April 1986), pp. 80-84.

Table 468.-- PRIMARY ENERGY USE, BY SOURCE: 1981 TO 1985

[Thousands of barrels of oil equivalent]

Year	All sources	Petroleum	Biomass	Hydro electricity	Coal	Geothermal	Wind
1981	45,886	42,681	2,791	117	297	-	-
1982	45,705	42,325	2,980	174	202	25	-
1983	46,503	43,112	3,069	141	151	30	-
1984	46,051	42,640	3,119	124	135	33	-
1985 1/	46,213	42,837	3,008	155	156	30	27

1/ Preliminary.

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Planning and Economic Development, records; Hawaiian Sugar Planters' Association, records.

Table 469.-- ELECTRICITY GENERATION BY SOURCE: 1981 TO 1985

[Millions of kWh generated]

Year	Total	Petroleum	Biomass	Hydro-electric	Geothermal	Wind	Coal
1981	7,615	6,913	628	74	-	-	-
1982	7,467	6,729	612	110	16	-	-
1983	7,689	6,914	667	89	19	-	-
1984	7,841	7,073	669	78	21	-	-
1985	7,823	6,993	680	98	19	17	16

Source: Hawaii State Department of Commerce and Consumer Affairs, records; Hawaii State Department of Planning and Economic Development, records; Hawaiian Sugar Planters' Association, records.

Table 470.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SOURCE: 1970 TO 1985

[Millions of dollars]

Year	Total energy expend.	Fuel expenditures			Less: electric utility fuel expend.	Plus: electric purch. by end-user
		Total	Electric utility	Other		
1970	282.7	215.9	17.3	198.6	17.3	84.1
1971	320.8	246.8	24.8	222	24.8	98.8
1972	332.4	250.4	27.3	223.1	27.3	109.3
1973	391.1	300.9	36.3	264.6	36.3	126.5
1974	534.5	433.2	49.8	383.4	49.8	151.1
1975	669.9	546.1	91.9	454.2	91.9	215.7
1976	735.6	600	100.4	499.6	100.4	236
1977	844.5	696.5	123.5	573	123.5	271.5
1978	932.2	767.8	149.3	618.5	149.3	313.7
1979	1,261.3	1,083.7	177	906.7	177	354.6
1980	1,721.3	1,529.8	267.8	1,262	267.8	459.3
1981	2,195.2	1,947.7	451.5	1,496.2	451.5	699
1982	2,153.8	1,869.6	439.4	1,430.2	439.4	723.6
1983	2,019.9	1,730.1	369.3	1,360.8	369.3	659.1
1984	2,048.4	1,724.8	379.3	1,345.5	379.3	702.9
1985	1,964.0	1,632.0	340.6	1,291.4	340.6	672.6

Source: Hawaii State Department of Planning and Economic Development, Division of Energy, unpublished estimates, October 16, 1986.

Table 471.-- EXPENDITURES FOR FUELS AND ELECTRICITY, BY SECTORS: 1970 TO 1985

[Millions of dollars]

Year	Total fuel	Residential		Commercial and industrial		Transport: fuel	Electric utilities: fuel
		Fuel	Elect.	Fuel	Elect.		
1970	215.9	5.5	34.1	18.9	50	174.2	17.3
1971	246.8	8.7	38.8	17.9	60	195.4	24.8
1972	250.4	6.1	42.6	20.5	66.7	196.5	27.3
1973	300.9	10.5	48.7	24.4	77.8	229.7	36.3
1974	443.2	10.4	57.1	44.7	94	328.3	49.8
1975	546.1	7.4	76.9	45.8	138.8	401	91.9
1976	600	12.7	84	45.9	152	441	100.4
1977	696.5	13.9	92.9	55	178.6	504.1	123.5
1978	767.8	13.3	105.8	52.6	207.9	552.6	149.3
1979	1,083.7	26.2	118.9	102.4	235.7	778.1	177
1980	1,529.8	19.5	146.4	135.4	312.9	1,107.1	267.8
1981	1,947.7	20.6	214.6	232.4	484.4	1,243.2	451.5
1982	1,869.6	26.2	222.4	283.6	501.2	1,120.4	439.4
1983	1,730.1	22.9	205.9	288.1	453.2	1,049.8	369.3
1984	1,724.8	20.6	217.4	192.1	485.5	1,132.8	379.3
1985	1,632.0	17.3	213.5	113.1	459.1	1,141.0	340.6

Source: Hawaii State Department of Planning and Economic Development, Division of Energy, unpublished estimates, October 16, 1986.

Table 472.-- ELECTRIC UTILITIES: 1975 TO 1985

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
1982 ..	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410
1983 ..	319,449	276,194	43,255	1,578,780	6,425,578	1,814,336	4,611,242
1984 ..	324,384	280,518	43,866	1,578,780	6,606,255	1,837,954	4,768,301
1985 ..	330,407	285,117	45,290	1,567,230	6,635,158	1,879,027	4,756,131

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447
1982 ..	6,654	107,133	.12348	.11061	723,622	222,423	501,199
1983 ..	6,569	106,606	.11348	.09828	659,089	205,889	453,200
1984 ..	6,552	108,702	.11831	.10181	702,899	217,447	485,452
1985 ..	6,590	105,015	.11361	.09653	672,600	213,478	459,122

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 473.-- ELECTRIC UTILITIES, BY ISLANDS: 1985

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
State total	330,407	285,117	45,290	1,567,230	6,635,158	1,879,027	4,756,131
Oahu	231,912	202,222	29,690	1,283,000	5,336,262	1,403,837	3,932,425
Hawaii	41,394	34,505	6,889	104,650	505,150	204,032	301,118
Kauai	19,421	16,493	2,928	62,080	231,007	83,758	147,249
Maui County	37,680	31,897	5,783	117,500	562,739	187,400	375,339
Lanai	876	753	123	-	5,507	3,382	2,125
Maui	34,295	29,087	5,208	110,300	532,687	174,240	358,447
Molokai	2,509	2,057	452	7,200	24,545	9,778	14,767

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	6,590	105,015	0.11361	0.09653	672,600	213,478	459,122
Oahu	6,942	132,449	0.10417	0.08871	495,077	146,243	348,834
Hawaii	5,913	43,710	0.13655	0.12650	65,950	27,860	38,090
Kauai	5,078	50,290	0.14900	0.14883	34,396	12,480	21,916
Maui County	5,875	64,904	0.14352	0.13396	77,177	26,895	50,282
Lanai	4,491	17,274	0.18793	0.18890	1,037	636	401
Maui	5,990	68,826	0.13856	0.13010	70,776	24,143	46,633
Molokai	4,753	32,670	0.21641	0.21994	5,364	2,116	3,248

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 474.-- GAS UTILITIES: 1975 TO 1985

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975
1982 ...	32,905	28,979	3,926	32,224	6,329	25,895
1983 ...	32,880	28,933	3,947	31,307	6,338	24,970
1984 ...	32,643	28,859	3,784	30,928	5,853	25,075
1985 ...	32,988	29,253	3,735	31,203	5,911	25,292

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986
1982 ...	218	6,596	1.73311	1.43891	48,229	10,969	37,260
1983 ...	219	6,326	1.79719	1.44022	47,352	11,390	35,962
1984 ...	203	6,627	1.78958	1.37488	44,949	10,474	34,475
1985 ...	202	6,772	1.76934	1.33821	44,305	10,459	33,846

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 475.-- GAS UTILITIES, BY ISLANDS: 1985

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	32,988	29,253	3,735	31,203,218	5,911,402	25,291,816
Oahu	30,442	27,085	3,357	28,255,330	5,435,506	22,819,824
Hawaii	1,905	1,587	318	2,103,949	357,813	1,746,136
Kauai	272	272	-	58,995	58,995	-
Maui	369	309	60	784,944	59,088	725,856
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per (therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	202	6,772	1.76934	1.33821	44,305	10,459	33,846
Oahu	201	6,798	1.79178	1.35453	40,649	9,739	30,910
Hawaii	225	5,491	1.50588	1.20498	2,643	539	2,104
Kauai	217	-	1.55350	-	92	92	-
Maui	191	12,098	1.51598	1.14550	921	89	832
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 476.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1980 TO 1985

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1980 ..	217,142	189,771	5,525,998	5,266,522	7,661	0.07126	1,140,180
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,275,160
1982 ..	222,636	194,468	5,441,941	5,164,332	7,068	0.12066	1,255,600
1983 ..	226,070	197,400	5,546,600	5,230,658	7,030	0.10631	1,200,000
1984 ..	228,606	199,722	5,633,940	5,330,931	6,960	0.11032	1,200,000
1985 ..	231,912	202,222	5,637,678	5,336,262	6,997	0.10417	1,200,000

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate.
Source: Hawaiian Electric Co., Inc., records.

Table 477.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1980 TO 1985

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1980 ...	30,471	26,625	31,636	6,455	242
1981 ...	30,019	26,201	29,543	5,893	225
1982 ...	30,221	26,665	29,307	5,765	216
1983 ...	30,305	26,674	28,795	5,849	219
1984 ...	30,041	26,636	28,190	5,389	202
1985 ...	30,442	27,085	28,255	5,436	201

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 478.-- LIQUID FUEL TAX BASE: 1975 TO 1985

[In thousands of gallons]

Year reported 1/	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1975	839,289	284,552	75,120	12,710
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596
1980	939,766	312,896	101,719	17,765
1981	918,437	305,886	101,212	15,771
1982	893,288	308,600	88,312	17,303
1983	919,865	310,085	86,790	16,440
1984	925,871	322,410	95,956	17,892
1985	970,555	327,021	83,147	17,636

Year reported 1/	Liquefied petroleum gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1975	1,823	1,380	462,384	411	908
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856
1980	2,448	1,140	502,544	338	917
1981	2,378	1,136	489,551	424	2,079
1982	2,628	960	474,477	207	802
1983	3,013	1,052	501,648	213	624
1984	2,600	873	485,810	114	215
1985	2,804	1,028	538,055	187	676

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution" (annual report).

Table 479.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1985

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	970,555	795,259	79,184	64,144	31,968
Gasoline	327,021	232,092	35,441	41,872	17,616
Diesel oil, non-hwy.	83,147	31,327	26,750	11,737	13,334
Diesel oil, hwy. use	17,636	12,848	1,340	2,871	578
Liq. pet. gas, off hwy. ..	2,804	1,905	353	438	108
Liq. pet. gas, hwy. use ..	1,028	843	45	104	35
Small boats, gasoline	187	50	-	137	-
Small boats, diesel oil ..	676	69	-	607	-
Aviation fuel	538,055	516,125	15,255	6,377	298

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution, Year Ending December 31, 1985" (annual release).

Table 480.-- GASOLINE SERVICE STATIONS (SIC 554) WITH PAYROLL, BY COUNTIES: 1964 TO 1984

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1964	378	276	47	20	34
1974	400	291	53	26	30
1981	340	254	45	17	24
1982	365	252	59	21	33
1983	379	267	59	25	28
1984	359	251	51	26	31

Source: U.S. Bureau of the Census, County Business Patterns, Hawaii (annual).

Table 481.-- GASOLINE SERVICE STATIONS: 1982

[Data are shown only for establishments with payroll]

Subject	State total	Oahu only
Number of establishments	366	251
Offering self-service sale of gasoline	64	53
Sales ($1,000)	400,141	299,966
Gallon sales (1,000):		
Gasoline, total	228,151	172,809
Through self-service	51,926	48,879
Other automotive fuels	2,387	1,838
Pumps, Dec. 31:		
Gasoline, total	2,431	1,902
Self-service	478	412
Other automotive fuel	60	44
Total gallon storage capacity, all fuels (1,000)	6,300	(S)

S Withheld because estimates did not meet publication standards.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 2, 3, 4, and 5.

Table 482.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1978 TO 1986

[Dollars. Average prices include all applicable federal, state, and county taxes. This survey will be discontinued after December 1986]

Date	All types 1/	Leaded regular	Unleaded regular	Leaded premium
1978: June	.778	.761	.765	.793
Dec.	.804	.778	.791	.821
1979: June	.957	.922	.956	.970
Dec.	1.150	1.087	1.164	1.175
1980: June	1.352	1.310	1.350	1.383
Dec.	1.407	1.348	1.413	1.441
1981: June	1.580	1.508	1.588	1.619
Dec.	1.584	1.520	1.586	1.621
1982: June	1.512	1.454	1.511	1.556
Dec.	1.518	1.446	1.522	1.566
1983: June	1.455	1.391	1.450	1.506
Dec.	1.474	1.409	1.470	1.530
1984: June	1.497	1.425	1.490	(NA)
August ...	1.498	1.419	1.492	(NA)
Revised series 2/				
1984: Sept.	1.409	1.310	1.406	(NA)
Dec.	1.384	1.285	1.372	(NA)
1985: June	1.386	1.269	1.387	(NA)
Dec.	1.406	1.295	1.421	(NA)
1986: June	1.212	1.063	1.227	3/ 1.334

NA Not available.

1/ Includes types not shown separately.

2/ Because of revised sample design, data are not directly comparable to earlier figures.

3/ Unleaded premium.

Source: U.S. Bureau of Labor Statistics, Consumer Prices: Energy and Food (monthly, 1979-1985), CPI Detailed Report (monthly, 1985-1986), and printouts for 1978-1979.

Table 483.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY RAW SUGAR PLANTATIONS, BY ISLANDS: 1984

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated 1/	816.99	265.45	191.35	249.39	110.80
Purchased	41.91	2.12	4.68	9.76	25.35
Sold	319.04	163.52	82.90	61.43	11.19
Used 2/	539.86	104.05	113.13	197.72	124.96
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	26,089	10,345	4,938	8,080	3,447
Bagasse	23,411	9,215	4,577	6,409	3,210
Fuel oil	2,443	503	258	1,530	152
Other fuels	955	627	102	141	85

1/ Includes electricity generated by steam and by hydroelectric or diesel engine generators.

2/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, Energy Inventory of Hawaiian Sugar Plantations - 1984 (Energy Report 22, December 18, 1985), pp. 8-10.

Table 484.-- TAX CREDITS FOR SOLAR DEVICES AND HEAT PUMPS: 1977 TO 1984

[In 1976, the State Legislature approved a tax credit for solar energy devices installed after December 31, 1974. In 1981, the Legislature approved a tax credit for heat pumps installed after December 31, 1980]

Year installed	Solar devices			Heat pumps	
	Number claiming	Average cost (dollars)	Total credit allowed 1/ (dollars)	Number claiming	Credit claimed 1/ (dollars)
1977	1,101	2,135	229,729	...	...
1978	4,061	2,907	1,119,870	...	...
1979	4,375	3,031	1,249,971	...	...
1980	4,704	3,346	1,492,602	...	...
1981	6,445	3,500	2,107,293	2,013	164,155
1982	4,407	3,659	1,511,796	3,122	154,173
1983	3,148	3,601	1,076,222	665	39,921
1984	4,464	3,519	1,482,095	257	12,935

1/ Credit limited to 10 percent of actual cost. Credits are prorated for condominium owners.

Source: Hawaii State Department of Taxation, Tax Credits Claimed by Hawaii Residents for 1977-1984.

Table 485.-- HOUSING UNITS WITH SOLAR WATER HEATING SYSTEMS: 1982 TO 1985

Subject	1982	1983	1984	1985
Number with systems, Dec. 31 ...	23,700	26,800	31,800	39,000
Percent with systems 1/	6.8	7.6	8.9	10.7

1/ Based on April 1 estimates of total housing stock in DPED Statistical Report 191 (July 18, 1986).

Source: Hawaii State Department of Planning and Economic Development, Energy Division, unpublished estimates. The 1985 estimate is provisional.

Table 486.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT IN HAWAII: 1980 TO 1983

[Millions of dollars. For fiscal years ended September 30]

Fiscal year	Federal obligations for R and D	Federal obligations for R and D plant
1980	42.6	0.2
1981	49.9	0.7
1982	44.5	0.1
1983	71.4	0.1

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1981, 1982, and 1983, Vol. XXXI, Final Report NSF 83-320, pp. 188-189; and Federal Funds for Research and Development: Fiscal Years 1983, 1984, and 1985, Vol. XXXIII, Detailed Statistical Tables NSF 84-336, p. 141.

Table 487.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1980 TO 1983

[Thousands of dollars]

Fiscal year	Total R and D expenditures	Federally financed R and D expenditures
1980	40,593	25,833
1981	42,997	25,153
1982	43,439	26,616
1983	45,401	27,633

Source: National Science Foundation, Academic Science/Engineering: R and D Funds, Fiscal Year 1983, NSF 85-308, pp. 26-27.

Table 488.-- RESEARCH AND NON-RESEARCH EXTRAMURAL FUNDING, FOR THE UNIVERSITY OF HAWAII: 1980-81 TO 1985-86

[Research and non-research awards received through the Office of Research Administration, University of Hawaii]

Fiscal year	Total		Research		Non-research	
	Awards	Amount (dollars)	Awards	Amount (dollars)	Awards	Amount (dollars)
1980-81	613	46,152,470	366	27,100,723	247	19,051,747
1981-82	513	37,233,647	314	26,458,595	199	10,775,052
1982-83	595	45,652,413	392	33,733,083	203	11,919,330
1983-84	583	47,954,042	358	30,204,420	225	17,749,622
1984-85	627	53,267,244	385	36,699,412	242	16,567,832
1985-86	643	53,976,468	354	35,750,696	289	18,225,772

Source: Office of Research Administration, University of Hawaii, 1984-1985 Extramural Awards (August 1985) and records.

Table 489.-- DOCTORAL SCIENTISTS AND ENGINEERS: 1983

Profession	Number	Median annual salary 1/ (dollars)
Total	1,779	39,100
Scientists	1,616	37,900
Physical scientists	282	...
Mathematical scientists	38	...
Computer/information spec.	21	...
Environmental scientists	92	...
Life scientists	543	35,300
Psychologists	157	...
Social scientists	483	36,200
Engineers	163	...

1/ Data limited to full-time employed civilians. Not reported for groups with fewer than 20 individuals reporting salary.

Source: National Science Foundation, Characteristics of Doctoral Scientists and Engineers in the United States: 1983, NSF85-303 (1985), pp. 60-65.

Table 490.-- TELESCOPES AT THE SUMMIT OF MAUNA KEA AND HALEAKALA: 1986

Location and telescope (diameter in meters)	Year completed	Capital costs (million dollars)	Operating costs, 1986 (million dollars)	Hawaii-based staff (persons)
Mauna Kea:				
UH .61-m	1969	0.1	0.1	13
UH .61-m	1969	0.1		
UH 2.24-m	1970	3.0		
Canada-France-Hawaii	1979	30.0	3.5	43
NASA 3.0-m IRTF	1979	10.0	1.8	10
UK 3.8-m	1979	10.0	1.5	29
James Clerk Maxwell (UK/NL)	1986	20.0	1.0	20
Caltech 10.4-m Submillimeter	1986	10.0	1.5	11
W.M. Keck Observatory 10-m Optical/IR (under const.)	1990	85.0	2.3	35
Haleakala (on UH land):				
Mees Solar Observatory	1956	0.5	0.3	6
Lunar Ranging Facility	1976/84	3.25	0.7	9
Gamma Ray Facility	1985	2.0	0.2	1

Source: University of Hawaii at Manoa, Institute for Astronomy, Fact Sheet - 1986, and data provided May 12, 1986.

Table 491.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1978 TO 1985

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

Fiscal year	Patents	Fiscal year	Patents
1978	41	1982	31
1979	32	1983	30
1980	32	1984	43
1981	49	1985	33

Source: U.S. Department of Commerce, Patent and Trademark Office, *Commissioner of Patents and Trademarks Annual Report, Fiscal Year '85*, p. 50.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic. Other information bearing on transportation appears in Sections 7, 12, 14, and 24.

Motor vehicle registration in Hawaii increased from 506,000 in 1975 to 749,000 in 1985. Vehicle miles rose during the same period from 4.1 billion to 6.8 billion. Hawaii residents purchased 59,000 new passenger cars and 10,000 trucks in 1985. By the end of that year, 594,000 licensed drivers had access to 4,070 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 58 million in 1975 to 75 million in 1985. Registered bicycles numbered 85,000 in 1985.

Most scheduled interisland travel is by air. In 1985, airlines and air taxis reported 7.9 million interisland passengers, some 48 percent more than in 1975, and carried 51,000 tons of cargo. The State has 8 commercial airports, 15 general aviation, military or semi-private airports, 10 civilian heliports, 3,200 active pilots, and about 463 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific air travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 1,360 in 1985, air arrivals increased during the same 26-year span from 224,000 to 5.3 million. Overseas cargo received in the State in 1983 amounted to 68,000 tons by air and 9.4 million tons by ship.

Undocumented State-registered vessels as of December 31, 1985 numbered 13,443, compared with about 8,000 in 1970. Median length was 19.5 feet, and four-fifths were stored on land. There were 1,348 documented vessels in the State in 1986, more than double the 1970 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, county finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1986, Sections 22 and 23.

Table 492.-- HIGHWAY DISTANCES: 1986

Route	Statute miles	Route	Statute miles
HAWAII		MOLOKAI	
Hilo-Lyman Field	2.0	Kaunakakai-Sheraton Hotel	19.5
Hilo-Kalapana	26.1	Kaunakakai-Maunaloa	16.5
Hilo-Mauna Kea summit	39.3	Kaunakakai-Airport	7.0
Hilo-Mauna Loa summit	52.4	Kaunakakai-Halawa	27.6
Hilo-Volcano House	30.7	Airport-Sheraton Hotel	11.5
Hilo-Kailua, via Naalehu	125.2		
Hilo-Kailua, via Saddle Rd.	84.3	OAHU 1/	
Hilo-Kailua, via Hamakua	91.2		
Hilo-Waimea, via Saddle Rd.	57.9	Honolulu-Ala Moana Center	1.6
Hilo-Waimea, via Hamakua	55.3	Honolulu-UH, via King Street	3.2
Hilo-Upolu Pt., via Hamakua	83.7	Honolulu-Waikiki	3.2
Hilo-Kawaihae, via Hamakua	69.5	Honolulu-Waimanalo, via Koko Head	21.8
Waimea-Hawi	21.4	Honolulu-Waimanalo, via Nuuanu	13.3
Waimea-Kawaihae	11.5	Honolulu-Kailua, via Nuuanu	11.6
Kawaihae-Hawi	18.0	Honolulu-Kaneohe, via Kalihi	10.8
Kawaihae-Kailua	48.4	Honolulu-Kahuku, via Kahaluu	36.2
Kailua-Keahole Airport	6.8	Honolulu-Kahuku, via Wahiawa	46.2
Kailua-Keauhou	6.9	Honolulu-Kaena Pt., via Wahiawa	42.4
		Honolulu-Kaena Pt., via Waianae	44.3
MAUI		Honolulu-Wahiawa	20.5
		Honolulu-Pearl Harbor Shipyard	6.5
Wailuku-Kahului	2.3	Honolulu-Honolulu Airport	4.8
Wailuku-Kahului Airport	4.2	Waikiki-UH, via Kapahulu	3.2
Wailuku-Hana, via Keanae	53.7	Waikiki-Honolulu Airport	8.0
Wailuku-Hana, via Kaupo	59.8	Waimanalo-Kahuku	33.0
Wailuku-Haleakala summit	38.2		
Wailuku-Makena	17.6	KAUAI	
Wailuku-Lahaina, via Kahakuloa	38.0		
Wailuku-Lahaina, via Olowalu	20.9	Lihue-Haena	38.0
Kahului-Kihei	7.9	Lihue-Wailua	5.9
Lahaina-Wailea	32.4	Lihue-Lihue Airport	2.0
Lahaina-Napili	8.9	Lihue-Poipu	11.9
Lahaina-Kaanapali	3.7	Lihue-Mana	32.9
		Lihue-Kalalau Lookout	44.6
LANAI		Poipu-Kalalau Lookout	36.8
		Poipu-Princeville	40.7
Lanai City-Lanai Airport	2.7		
Lanai City-Hulopoe	8.0		

1/ Honolulu distances measured from King and Bishop Streets; Waikiki, from Kalakāua and Lewers.

Source: Hawaii State Department of Transportation, Highways Division, September 14, 1973 and March 6, 1986.

Table 493.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED: 1923 TO 1985

[Excludes private thoroughfares and military roads not regularly open to public use]

Category	1923	1938	1958	1967	1976	1985
Total mileage ...	1,479	2,040	2,967	3,402	3,797	4,070
Paved 1/	565	1,367	2,393	3,223	3,437	3,808
Unpaved 1/	914	673	575	179	361	262

1/ In 1970, 284 miles were reclassified from paved to unpaved.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 429; present report, table 494.

Table 494.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1985

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total mileage	Paved		Unpaved
		Freeways	Other	
State total	4,069.89	106.20	3,701.90	261.79
Hawaii	1,451.47	7.04	1,369.23	75.20
Maui	633.77	3.21	525.90	104.66
Lanai	45.83	-	31.83	14.00
Molokai	125.57	-	113.57	12.00
Oahu	1,426.03	95.95	1,296.64	33.44
Kauai	387.22	-	364.73	22.49
Niihau	-	-	-	-

Source: Hawaii State Department of Transportation, memorandum dated June 24, 1986.

Table 495.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1985

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State .	1,101	Pearl City Viad. .	5,946	Nanue	208
Hawaii	255	Hakalau	775	Nanue	208
Maui	148	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai	19	Manawainui	325	Manawainui	50
Oahu	604	Pearl City Viad. .	5,946	Kipapa	156
Kauai	75	Kalihiwai	798	Wahiawa, Koloa ..	90

Source: Hawaii State Department of Transportation, Highways Division, information provided May 21, 1986.

Table 496.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1985

Island and name of tunnel	Length (feet)
Oahu:	
Pali No. 1: Inbound (to Honolulu)	1,000
Outbound (from Honolulu)	1,080
Pali No. 2: Inbound	500
Outbound	497
Wilson: Inbound	2,775
Outbound	2,813
Middle Street	393
Structure No. 8, Waiawa Interchange	300
Maui:	
Olowalu	318
Kauai:	
Kipu-Mahaulepu (private road)	2,200

Source: Hawaii State Department of Transportation, Highways Division, May 21,1986; McBryde Sugar Plantation, February 28, 1986.

Table 497.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1985

Type of facility and control	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Signalized intersections	580	38	18	-	-	516	8
Under State control 1/	205	8	18	-	-	176	3
Under county control	375	30	-	-	-	340	5
Metered on-street parking spaces	3,630	816	-	-	-	2,814	-
Under State control 1/	14	-	-	-	-	14	-
Under county control	3,616	816	-	-		2,800	-
Metered off-street parking spaces 2/	3,226	277	68	-	18	2,797	66
Under State control	1,686	87	68	-	18	1,447	66
Acctg. & Gen. Ser.	578	56	26	-	-	471	25
Airports Div.	191	31	42	-	18	59	41
Harbors Div.	917	-	-	-	-	917	-
Under county control	1,540	190	-	-	-	1,350	-

1/ All under the Department of Transportation.

2/ Limited to spaces under State or county control. Excludes about 900 spaces on Oahu converted to contract operation.

Source: Hawaii State Department of Accounting and General Services, Hawaii State Department of Transportation, City and County of Honolulu Department of Transportation Services, Hawaii County Department of Public Works, Kauai County Department of Public Works, and Maui County Department of Public Works.

Table 498.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1975 TO 1985

[Taxable and non-taxable, including military non-resident exempt vehicles]

Year	All vehicles registered	Motor vehicles									
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters 2/	Trailers and semitrailers
1975	522,421	506,434	430,043	88	2,186	63,134	1,877	733	8,373	15,987
1976	551,438	535,217	452,616	82	2,624	68,215	1,866	680	9,134	16,221
1977	580,380	563,964	475,368	81	2,888	73,762	1,848	609	9,408	16,416
1978	599,990	583,601	489,878	84	3,052	78,447	1,809	560	9,771	16,389
1979	626,841	610,570	510,353	91	3,267	84,578	1,784	511	9,986	16,271
1980	633,846	617,571	514,669	85	3,366	87,542	1,725	488	9,696	16,275
1981	667,019	649,350	541,932	88	3,577	90,954	1,641	458	10,700	17,669
1982	689,468	671,513	566,060	80	3,863	88,410	1,395	388	11,317	17,955
1983 3/ .	665,620	649,361	542,314	66	3,839	92,740	1,477	362	8,563	16,259
1984	735,458	717,171	599,845	68	4,034	101,233	1,428	364	10,199	18,287
1985	767,892	749,034	625,823	66	4,189	106,673	1,334	342	10,607	18,858

Footnotes and source on next page.

Table 498.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1975 TO 1985 -- Con.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

3/ Apparently not comparable to data for other years.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 499.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1975 TO 1985

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929
1983 1/ ...	629,361	475,011	73,343	32,334	68,673
1984	717,171	525,599	80,840	35,236	75,496
1985	749,034	544,976	85,806	37,659	80,593

1/ Apparently not comparable to data for other years.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by the Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 500.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1975 TO 1985

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867
1982	566,060	429,244	59,103	26,297	51,416
1983 2/ ...	542,314	405,761	56,401	24,960	55,192
1984	599,845	447,872	63,182	27,376	61,415
1985	625,823	460,906	68,602	29,890	66,425

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Apparently not comparable to data for other years.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 501.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1985

[Taxable and non-taxable, including military non-resident exempt vehicles]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	767,892	555,256	90,171	39,685	82,780
Motor vehicles	749,034	544,976	85,806	37,659	80,593
Passenger vehicles 1/	625,823	460,906	68,602	29,890	66,425
Ambulances 2/	66	49	12	2	3
Buses	4,189	3,278	253	170	488
Trucks 1/	106,673	71,246	15,452	7,192	12,783
Truck tractors 3/	1,334	699	321	122	192
Truck cranes 4/	342	139	92	38	73
Motorcycles 5/	10,607	8,659	1,074	245	629
Trailers and semi-trailers ..	18,858	10,280	4,365	2,026	2,187

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 502.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied units	294,052	29,237	230,214	71	12,020	22,510
None	30,509	2,463	25,628	8	788	1,622
1	115,357	9,193	95,735	18	3,209	7,202
2	94,699	10,775	71,456	25	4,440	8,003
3 or more	53,487	6,806	37,395	20	3,583	5,683

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 503.-- TAXABLE VEHICLES, BY TYPE AND EMPTY WEIGHT: 1985

Empty weight	Passenger vehicles	Buses	Trucks	Truck tractors, tow trucks	Motorcycles	Trailer
All taxable vehicles ..	568,486	3,076	37,698	815	5,432	13,255
Under 2,000 lb.	52,484	2	26	-	5,432	10,227
2,000 to 2,999 lb.	295,582	57	8,956	8	-	426
3,000 to 3,999 lb.	168,960	93	10,902	5	-	162
4,000 to 4,999 lb.	47,657	832	8,760	9	-	152
5,000 to 5,999 lb.	3,363	934	2,246	11	-	194
6,000 to 9,999 lb.	297	321	3,250	130	-	970
10,000 lb. and over	143	837	3,558	652	-	1,124
Median weight (lb.)	2,784	5,593	3,905	14,057	<2,000	<2,000

Source: Hawaii State Department of Transportation, Highways Division, printouts; medians calculated by Hawaii State Department of Planning and Economic Development.

Table 504.-- TRUCK CHARACTERISTICS: 1982, 1977, AND 1972

[Percent]

Vehicular and operational characteristics	1982 1/	1977	1972
Major use: Personal transportation	54.3	50.0	37.6
Body type: Pickup, panel, multistop, or walk-in .	89.6	86.4	73.5
Vehicle size: Light	92.9	89.0	71.6
Annual miles: Less than 10,000	59.7	54.1	59.8
Year model: Over 4 years old	75.8	68.1	59.3
Vehicle acquisition: Purchased new	47.3	54.6	55.9
Fleet size: 1 truck	72.3	64.0	53.4
Truck type: Single-unit, 2 axles	96.6	95.7	91.2
Range of operation: Local	78.2	87.3	84.6
Fuel type: Diesel and LPG	3.7	4.6	6.2

1/ There were 120,000 trucks in Hawaii in 1982, which traveled 1,071,700,000 truck miles, or 8,900 per truck.

Source: U.S. Bureau of the Census, 1982 Census of Transportation, Truck Inventory and Use Survey, Hawaii, TC82-T-12 (June 1985), tables 1 and 2.

Table 505.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1980 TO 1985

Year	Total	Passenger cars	Motor trucks
1980	46,664	37,104	9,560
1981	46,995	39,188	7,807
1982	44,489	37,137	7,352
1983	52,927	42,772	10,155
1984	63,625	48,791	14,834
1985	67,875	51,330	16,545

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures (annual).

Table 506.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY MAKE, 1985, AND RANK, 1983 TO 1985

Make	New registrations, 1985			Rank		
	Total	Passenger cars	Trucks	1983	1984	1985
All makes ..	68,676	58,700	9,976	...	...	...
Toyota	12,097	10,448	1,649	1	2	1
Nissan	11,735	9,911	1,824	2	1	2
Chevrolet	6,004	4,702	1,302	4	4	3
Ford	5,863	3,946	1,917	3	3	4
Honda	5,363	5,363	-	5	5	5
Mazda	4,357	3,459	898	6	6	6
Dodge	3,949	3,069	880	7	7	7
Oldsmobile	2,406	2,406	-	10	9	8
Buick	2,171	2,171	-	8	8	9
Pontiac	1,761	1,761	-	11	10	10
All others 1/ ...	12,970	11,464	1,506	...	...	...

1/ For details, see source.

Source: Hawaii Automobile Dealers Association, HADA Yearbook 1986.

Table 507.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY COUNTIES: 1985

Type	State total	Honolulu	Maui	Hawaii	Kauai
Passenger cars ...	58,700	41,455	7,552	7,147	2,546
Trucks	9,976	8,603	543	513	317

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1985.

Table 508.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1984 AND 1985

[Percent distributions]

Place of manufacture	All types		Passenger cars		Trucks	
	1984	1985	1984	1985	1984	1985
Total ...	100.0	100.0	100.0	100.0	100.0	100.0
Imports:						
Japanese ...	53.4	54.4	54.3	54.9	47.1	51.6
European ...	2.9	3.0	3.3	3.5	0.0	0.1
Domestics	43.0	41.5	41.9	40.8	50.8	45.7
Not reported .	0.7	1.1	0.5	0.8	2.1	2.7

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1986.

Table 509.-- HAWAII DRIVERS LICENSES IN FORCE, BY AGE AND SEX: DECEMBER 31, 1985

Age	Both sexes	Male	Female
Total	593,952	325,807	268,145
15 to 19 years	35,719	20,764	14,955
20 to 24 years	66,006	35,668	30,338
25 to 34 years	158,654	82,958	75,696
35 to 44 years	131,262	69,580	61,682
45 to 54 years	77,551	41,453	36,098
55 to 64 years	73,302	41,273	32,029
65 to 74 years	39,986	25,665	14,321
75 to 84 years	10,864	7,979	2,885
85 years and over	608	467	141
Median age (years)	37.5	38.0	36.9

Source: Tabulation by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 510.-- HAWAII DRIVERS LICENSES IN FORCE, BY COUNTIES: 1973 TO 1985

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973 1/	495,043	399,672	42,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978 2/	541,263	420,005	53,504	24,381	43,373
1979	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785
1982	561,345	419,468	63,610	28,446	49,821
1983	574,533	428,897	64,560	29,169	51,907
1984	582,218	434,053	65,778	28,801	53,586
1985	593,952	441,278	68,177	29,188	55,309

1/ Revised from Data Book 1984, table 523.
2/ Revised from Data Book 1985, table 485.
Source: Tabulations by City and County of Honolulu, Department of Data Systems, provided by Hawaii State Department of Transportation, Motor Vehicle Safety Office.

Table 511.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1980 TO 1985

Year and county	Highway fuel consumption 1/		Vehicle miles of travel	
	Total (1,000 gallons)	Gallons per vehicle 2/	Total (millions)	Per vehicle 2/
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
1984	339,491	473	6,486.3	9,044
1985	345,672	461	6,761.5	9,027
COUNTIES: 1985				
Honolulu	246,165	455	4,773.6	8,820
Hawaii	44,209	507	853.5	9,784
Kauai	17,993	458	406.5	10,352
Maui	37,306	459	727.9	8,954

NA Not available.

1/ Includes gasoline, gasohol, diesel oil, and butane gas.

2/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, May 21, 1986 and August 6, 1986.

Table 512.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over	457,717	369,523	88,194
Private vehicle	359,207	282,479	76,728
Drive alone: Car	225,767	179,823	45,944
Truck or van	27,401	15,904	11,497
Carpool: Car	93,203	78,997	14,206
Truck or van	12,836	7,755	5,081
Public transportation	38,100	37,042	1,058
Bus or streetcar	37,362	36,447	915
Subway, elevated train, or railroad	38	38	-
Taxicab	700	557	143
Bicycle	5,021	4,679	342
Motorcycle	2,979	2,740	239
Walked only	37,112	31,069	6,043
Other means	6,445	5,134	1,311
Worked at home	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 and over using private vehicles	359,207	282,479	76,728
Drive alone	253,168	195,727	57,441
In 2-person carpool	72,188	59,311	12,877
In 3-person carpool	19,417	16,642	2,775
In 4-person carpool	7,828	6,373	1,455
In 5-or-more-person carpool	6,606	4,426	2,180
Persons per private vehicle	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 and over who did not work at home	448,492	362,086	86,406
Less than 10 minutes	76,444	51,687	24,757
10 to 19 minutes	145,010	113,454	31,556
20 to 29 minutes	89,345	76,166	13,179
30 to 44 minutes	87,941	77,414	10,527
45 or more minutes	49,752	43,365	6,387
Mean minutes	21.5	22.6	17.2

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 513.-- AVERAGE DAILY TRAFFIC VOLUMES AT SELECTED OAHU SURVEY SITES: 1982 TO 1985

[Based on average number of vehicles over a 24-hour period for both directions]

Site	1982	1983	1984	1985
Pali Highway at tunnels	43,722	47,753	46,812	47,835
Likelike Highway at tunnels	45,057	44,644	43,840	48,501
H-1 Freeway at Manoa-Palolo Drainage Canal (includes ramps)	104,500	101,817	110,712	118,028
H-1 Freeway at Kapalama Drainage Canal Bridge	152,487	174,308	164,969	172,655
Nimitz Highway at Kapalama Drainage Canal Bridge	60,425	(NA)	55,312	62,410
Kalanianaole Highway east of Ainakoa Ave.	69,706	69,939	73,941	79,830

NA Not available.

Source: Hawaii State Department of Transportation, Highways Division, Planning Branch, records.

Table 514.-- PERSONS ARRESTED FOR DRIVING WHILE INTOXICATED, BY AGE AND SEX: 1984 AND 1985

Year	Actual offenses known to police	Arrests				
		Total	Juveniles		Adults	
			Male	Female	Male	Female
1984	5,197	4,463	40	6	4,102	315
1985	6,229	5,596	47	6	5,089	454

Source: Honolulu Police Department, Annual Statistical Report for 1984 and 1985.

Table 515.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: 1980 TO 1985

[Years ended September 30]

Measurement and year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arter-ials 1/	Major collec-tors 2/
AVERAGE SPEEDS (MILES PER HOUR)					
1980	(NA)	53.3	54.5	51.6	51.8
1981	53.0	54.0	55.1	51.1	52.8
1982	54.1	56.6	56.2	51.5	52.4
1983	54.0	56.7	56.5	51.6	51.8
1984	54.7	56.8	56.8	52.4	53.1
1985	54.8	56.9	58.0	52.3	53.0
1984					
Miles per hour:					
Median speed	55.1	57.1	57.5	52.7	53.4
85th percentile speed	61.6	63.6	63.6	59.3	60.2
Percent exceeding --					
55 miles per hour	45.7	57.0	61.0	32.3	35.0
60 miles per hour	23.2	26.2	49.7	12.2	14.0
65 miles per hour	6.1	8.6	6.4	3.8	6.5
1985					
Miles per hour:					
Median speed	55.1	57.3	58.7	52.7	53.1
85th percentile speed	61.8	63.8	65.2	59.4	60.8
Percent exceeding --					
55 miles per hour	43.4	58.4	67.4	29.0	19.1
60 miles per hour	18.8	26.3	34.9	10.5	8.5
65 miles per hour	6.5	8.5	11.5	3.8	5.3

NA Not available.

1/ Data for 1980 refer to multi-lane divided, except interstate. Data for 1981 and later years refer to principal and minor arterials, except interstate.

2/ Data for 1980 refer to two-lane rural.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 516.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1975 TO 1985

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139
1984	17,657	127	12,390	136
1985	19,577	118	12,613	126
COUNTIES: 1985				
Honolulu	14,997	80	9,158	86
Hawaii	2,368	22	1,845	23
Kauai	794	8	512	8
Maui	1,418	8	1,098	9

1/ Traffic accidents with damage of $300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 517.-- REGISTERED TAXICABS AND BICYCLES, BY ISLANDS: 1984 AND 1985

[As of December 31]

Island	Taxicabs		Bicycles	
	1984	1985	1984	1985
State total	1,696	2,148	78,971	85,041
Hawaii	85	90	3,517	2,487
Maui	123	123	2,839	2,832
Lanai	2	2	168	149
Molokai	-	-	286	256
Oahu	1,430	1,884	68,125	1/ 75,400
Kauai	56	49	4,036	3,917

1/ Excludes 10,144 mopeds.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 518.-- MOTOR CARRIER CHARACTERISTICS, BY COUNTIES: DECEMBER 1984

County	Passenger carriers 1/			Property carriers 2/	
	Number of carriers	Number of vehicles	Seating capacity	Number of carriers	Number of vehicles
State total	335	1,886	39,616	221	2,707
Hawaii	18	175	4,794	50	402
Maui	27	249	6,011	34	335
Honolulu	282	1,307	24,460	121	1,777
Kauai	8	155	4,351	16	193

1/ Includes mostly tour bus operators; excludes public transit (such as MTL, Inc.), school buses, taxicabs, and rental car companies.

2/ Includes truckers, moving companies, etc.

Source: Hawaii State Public Utilities Commission, Annual Report for Fiscal Year 1984-1985, p. 23.

Table 519.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1979 TO 1985

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers 1/	Calendar year	Miles of track	Passengers 1/
1979	6	103,105	1983 ...	6	171,892
1980	6	111,699	1984 ...	6	197,876
1981	6	128,178	1985 ...	6	199,759
1982	6	155,059			

1/ Revised from Data Book 1985, table 493.
Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted February 7, 1986.

Table 520.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1983 TO 1985

[Calendar year data for City and County of Honolulu bus system]

Fare category	1983	1984	1985
All passengers	75,051,618	76,260,187	74,816,485
Adults, full fare	40,401,159	41,846,716	41,997,746
Students	15,037,474	13,548,302	12,717,660
School subsidy	284,620	342,857	350,346
Stadium express	16,370	20,320	10,173
Senior citizens and handicapped	11,606,059	14,381,117	14,207,457
Chartered service	5,718	8,930	12,981
Free transfers	7,700,218	6,111,945	5,520,122

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 521.-- BUS SERVICE, FOR OAHU: 1970 TO 1985

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971]

Year	Number of buses, Dec. 31	Bus mileage 1/	Total passengers 2/	Revenues 3/ (dollars)
1970 4/	141	4,611,357	30,434,906	4,970,000
1971 5/	108	2,986,724	19,413,259	1,246,351
1972	143	4,964,044	31,031,764	4,445,817
1973	315	7,973,393	36,741,009	5,254,908
1974	333	11,670,774	50,519,626	6,807,147
1975	350	13,328,501	58,295,732	7,990,505
1976	350	15,547,127	64,585,334	9,007,134
1977	350	16,242,537	66,311,882	9,629,349
1978	350	15,991,798	67,746,396	9,686,876
1979	350	15,915,000	68,765,000	9,931,000
1980	400	16,579,392	71,601,744	17,388,760
1981	400	16,748,338	73,546,802	17,991,735
1982	400	16,767,816	74,109,528	18,269,144
1983	395	16,654,568	75,051,618	18,157,876
1984	440	16,774,564	76,260,187	18,819,782
1985	440	16,938,692	74,816,485	18,952,566

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Calendar year 1970; 4-month period ended June 30, 1971; fiscal years ended June 30, 1972 to 1979; calendar years, 1980 forward. The fiscal year figure for 1980 was $14,817,639.

4/ Passenger total excludes 2,277,502 zone fares.

5/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: HRT, Ltd., data provided by Hawaii State Department of Regulatory Agencies, Public Utilities Division; MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 522.-- BUS FARE CHRONOLOGY, FOR OAHU: 1961 TO 1986

[In dollars. Service was provided by Honolulu Rapid Transit, Ltd., from August 31, 1901 until December 31, 1970, and by the City and County of Honolulu beginning March 1, 1971. For data covering the period from 1968 to 1977, see The State of Hawaii Data Book 1978, table 305, pp. 273-274]

Effective date	Cash fares 1/		Tickets		Monthly passes	
	Adult	School	Adult	School	Adult	School
May 29, 1961	.25	.15	5/1.00	5/.50	---	---
March 1, 1971	.25	.15	---	---	---	---
March 2, 1971	.25	.10	---	---	---	---
June 9, 1972 2/ ...	.25, .50	.10, .25	---	---	---	---
March 15, 1978	.25	.10	---	---	---	---
November 1, 1979 ..	.50	.25	---	---	15.00	7.50
June 18, 1984 3/ ..	.60	.25	---	---	15.00	7.50

1/ In addition, there have been special fares for children, handicapped persons, senior citizens, service to and from Pearl Harbor, and the Stadium Express during many of these years.

2/ Zone fares initiated.

3/ Current fares (February 1986).

Source: Honolulu Rapid Transit Co., Ltd., records; City and County of Honolulu, Department of Transportation Services, records.

Table 523.-- AUTOMOTIVE RENTAL AND LEASING (WITHOUT DRIVERS) ESTABLISHMENTS, BY COUNTIES: 1982

[Limited to establishments with payroll]

Subject	State total	Honolulu	Hawaii	Kauai	Maui
Number of establishments ..	93	45	16	13	19
Receipts ($1,000)	137,954	80,805	15,112	11,081	30,956

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3, 13, 16, and 19.

Table 524.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1985 AND 1986

Island	Airports 1/				Heliports 2/	
	State					
	Commercial	General aviation	Military	Semi-private	State: commercial	Semi-private
1985						
State total	8	6	6	3	1	9
Hawaii	3	1	1	1	-	4
Maui	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-
1986						
State total	8	6	6	1	1	9
Hawaii	3	1	1	-	-	4
Maui	1	1	-	-	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available).
2/ Excludes military and private heliports (not available).
Source: Hawaii State Department of Transportation, Airports Division, information provided January 10, 1986 and January 6, 1987.

Table 525.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1975 TO 1985

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahului Airport	Lihue Airport
1975	319,776	51,145	40,622	77,062	53,356
1976	320,565	52,982	58,425	90,455	58,865
1977	329,926	60,377	83,616	100,655	65,636
1978	379,106	52,677	91,033	125,291	74,583
1979	412,739	51,703	92,235	127,477	71,033
1980	375,408	49,969	66,944	111,573	62,829
1981	339,359	53,274	57,488	102,760	59,404
1982	308,728	47,964	51,889	112,428	65,305
1983	333,038	54,470	66,581	124,288	71,739
1984	343,818	62,543	83,320	142,311	100,992
1985	357,511	61,225	93,879	157,231	131,755

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), and records.

Table 526.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1985

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	357,511	167,154	79,329	81,103	29,925
Gen. Lyman	61,225	15,336	6,423	20,555	18,911
Kahului	157,231	71,745	43,777	30,558	11,151
Lihue	131,755	27,224	80,665	13,006	10,860
Keahole	93,879	20,510	31,473	22,313	19,583
Molokai	56,048	4,884	38,669	8,693	3,802

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 527.-- CIVIL FLYING: 1981 TO 1984

Item	1981	1982	1983	1984
Aircraft facilities, Dec. 31	51	49	51	51
Airports	37	36	37	37
Heliports	14	13	14	14
Public aircraft facilities, Dec. 31 ...	18	18	14	14
Paved and lighted facilities, Dec. 31 .	11	11	12	12
Aircraft in operation, Dec.	23	28	32	38
Aloha Airlines, Inc. 1/	8	8	8	9
Hawaiian Airlines, Inc. 1/	10	12	13	18
Mid Pacific Airlines, Inc.	5	8	11	11
General aviation: 2/				
Active civil aircraft, Dec.	623	426	381	463
Standard error	181	158	152	143
Hours flown (1,000)	288	86	97	206
Standard error (1,000)	131	34	34	95
Active personnel, Dec. 31:				
Pilots, except instructors	3,532	3,327	3,224	3,187
Flight instructors	276	291	260	303
Nonpilot airmen 3/	2,965	3,118	3,099	3,191

1/ Large aircraft only.

2/ Aircraft based in Hawaii. Data based on samples with specified standard errors.

3/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: U.S. Department of Transportation, Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual).

Table 528.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1984 TO 1986

[As of June 30. Includes both scheduled and nonscheduled services; excludes commuter lines and other air taxi service]

Service	1984	1985	1986
All air carriers 1/	31	32	32
Transpacific	29	30	30
Domestic	16	17	18
Foreign	13	13	12
Interisland	4	4	4
Passenger carriers	3	3	3
Cargo and mail only	1	1	1

1/ Unduplicated totals. Two carriers provided both transpacific and interisland service in all three years.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 529.-- AIR CARGO AND AIRMAIL: 1980 TO 1985

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland	
	Outgoing	Incoming	Outgoing	Incoming	Air cargo: incoming	Airmail: incoming
1980	130,586	114,673	21,105	19,581	138,008	13,576
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
1983	174,582	136,354	23,620	28,288	109,828	16,024
1984	196,215	153,654	23,356	29,497	111,472	16,282
1985	180,470	150,295	21,657	22,119	101,700	16,072

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 530.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1970 TO 1985

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Transpacific passengers			Interisland passenger arrivals 1/
	Arrivals	Departures	Through	
1970 ..	2,190,809	2,158,577	893,890	2,992,777
1971 ..	2,296,119	2,304,570	729,237	3,380,031
1972 ..	2,540,472	2,550,199	733,362	4,093,338
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	777,490	7,037,687
1984 ..	5,263,213	5,261,373	727,947	7,632,239
1985 ..	5,317,862	5,293,528	858,501	7,878,598

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 531.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1984 AND 1985

[Data for Aloha Airlines, Inc., Hawaiian Airlines, Inc., and Mid Pacific Airlines, Inc.]

Subject	1984 1/	1985
Number of airlines	3	3
Aircraft revenue departures 2/ (1,000)	119.9	121.5
Aircraft revenue miles 2/ (1,000)	15,143	17,490
Average airborne speed 2/ (miles per hour)	261	284
Average available seats per aircraft mile flown 2/	110.9	138.7
Revenue passengers: 2/		
Enplanements (1,000)	6,706	6,876
Load factor (percent)	57.4	59.4
Revenue ton-miles (1,000): 3/		
Freight	8,516	5,802
Mail	2,949	1,847
Number of employees 4/	1,810	2,731
Operating revenues 5/ ($1,000)	223,250	251,521
Operating profit or loss 5/ ($1,000)	3,782	2,919
Average passenger revenues per revenue passenger-mile 5/ (cents)	22.5	14.8
Average freight revenues per revenue ton-mile 5/ (dollars)	2.64	1.66

1/ Revised from Data Book 1985, table 505.

2/ Scheduled service only.

3/ Scheduled service only; excludes Mid Pacific.

4/ Weighted average for year; excludes Mid Pacific for 1984.

5/ Excludes Mid Pacific.

Source: U.S. Department of Transportation, Research and Special Programs Administration, Office of Aviation Information Management. Aloha Airlines, Inc. and Hawaiian Airlines, Inc. from Department of Transportation (DOT) Form 41. Mid Pacific Airlines, Inc. traffic data from DOT Form 298C.

Table 532.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1985

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	5,293,528	5,317,862	90,236	75,148	10,829	11,059
Honolulu	4,849,471	4,833,147	88,500	71,862	10,620	11,059
General Lyman ...	9,211	9,457	518	145	174	-
Kahului	349,668	369,779	672	1,688	35	-
Keahole	59,740	70,193	531	1,408	-	-
Lihue	25,438	35,286	15	45	-	-
INTERISLAND						
Total	7,878,598	7,878,598	50,850	50,850	8,036	8,036
Honolulu	3,458,592	3,497,493	33,529	14,782	4,476	3,521
General Lyman ...	514,068	541,193	9,193	8,930	1,278	1,213
Upolu	1,065	1,079	-	-	-	-
Waimea-Kohala ...	7,928	7,859	-	-	-	-
Keahole	693,454	662,426	2,868	3,405	517	329
Kahului	1,799,826	1,786,262	3,311	15,399	1,149	1,622
Hana	10,721	10,250	-	70	-	-
Kaanapali	57,066	56,491	-	-	-	-
Molokai	170,300	170,532	160	276	50	11
Kalaupapa	5,513	5,333	4	100	-	-
Lanai	26,459	26,442	3	36	4	-
Lihue	1,115,728	1,094,792	1,782	7,852	562	840
Other airports ..	17,878	18,446	-	-	-	-

1/ Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (858,501, all through Honolulu International Airport).

Source: Hawaii State Department of Transportation, Airports Division, records.

Table 533.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1985

[Year ended December 31, 1985. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Kahului	100	17	1,121	394	112,536
Honolulu-Los Angeles	2,568	24	966	3	2,487,530
Honolulu-Lihue	102	37	762	552	79,555
Honolulu-San Francisco	2,399	52	587	13	1,423,559
Honolulu-Kona	169	83	465	539	81,344
Honolulu-Chicago	4,251	129	309	30	791,997
Honolulu-New York	4,971	167	258	15	1,296,430
Honolulu-Seattle	2,678	294	155	65	443,976
Honolulu-Las Vegas	2,762	341	132	87	372,013
Honolulu-Boston	5,095	592	75	80	389,575
Honolulu-Washington	4,828	599	74	91	363,517

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: U.S. Department of Transportation, Research and Special Programs Administration, records.

Table 534.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1986

[Updated to September 1, 1986]

Effective date of change in fare		Regular one-way fares, including taxes (dollars) First class	Coach, weekend	Coach weekday	Flight time 1/ (hours, min.)
1980:	Jan. 1	302.12	209.08	199.08	5:02
	June 1	319.13	221.09	211.08	5:02
	Aug. 1	351.14	243.10	233.09	5:02
	Oct. 1	365.11	252.08	252.08	5:02
1981:	Jan. 20 ...	384.12	265.08	265.08	5:02
	Mar. 31 ...	415.12	286.09	286.09	5:02
	June 17 ...	425.13	296.09	296.09	5:02
	Oct. 1	392.12	280.08	280.08	5:00
1982:	Mar. 1	412.12	219.07	219.07	5:00
	Apr. 1	412.12	310.09	310.09	5:00
	June 1	412.12	328.10	328.10	5:00
	Sept. 1 ...	415.16	331.13	331.13	5:00
1983:	June 15 ...	415.16	353.14	353.14	5:00
1984:	Sept.	415.00	353.14	353.14	5:00
	Oct.	415.00	353.00	353.00	5:02
	Dec.	454.00	364.00	364.00	5:02

1/ Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft. Flight time varies seasonally: From November through April, average flight time is 5:02 and from May through October, it is 4:58.

Source: United Airlines, records.

Table 535.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1981 TO 1986

[Updated to September 1, 1986]

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 1/	DASH-7	DC-9 1/	DASH-7	DC-9 1/	DASH-7
FARES 2/						
1981: Jan. 1	47.00	...	47.00	...	59.00	...
March 1	49.00	...	49.00	...	61.00	...
April 26 ...	49.00	49.00	49.00	49.00	61.00	61.00
May 1	51.00	51.00	51.00	51.00	63.00	63.00
Oct. 15	43.00	43.00	43.00	43.00	53.00	53.00
1982: May 1	46.00	46.00	46.00	46.00	56.00	56.00
June 1	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1	45.00	45.00	45.00	45.00	45.00	45.00
July 1	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20	49.95	41.95	49.95	41.95	49.95	41.95
May 28	49.95	43.95	49.95	43.95	49.95	43.95
Nov. 15	52.95	46.95	52.95	46.95	52.95	46.95
Dec. 16	52.95	37.95	52.95	37.95	52.95	37.95
1985: Jan. 7	52.95	34.95	52.95	34.95	52.95	34.95
Mar. 11	52.95	36.95	52.95	36.95	52.95	36.95
Apr. 28	52.95	38.95	52.95	38.95	52.95	38.95
July 1	44.95	37.95	44.95	37.95	44.95	37.95
Aug. 1	46.95	38.95	46.95	38.95	46.95	38.95
FLIGHT TIMES 3/						
1981-1984	26	34	27	34	40	60
1985-1986	25	33	26	33	40	68

1/ DC-9-50, through May 1981; DC-9-50 and DC-9-80 from May 1981 through 1985; DC-9-15, DC-9-50, and DC-9-80 thereafter.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

Source: Hawaiian Airlines, records.

Table 536.-- STATE COMMERCIAL HARBORS: 1986

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,787	122	446
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	2,749	124	586
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	26,363	1,873	7,215
Kapalama		40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,216	66	247
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 537.-- SHIP BUILDING AND REPAIR, WATER TRANSPORTATION, AND BOAT SALES ESTABLISHMENTS, EMPLOYEES, AND PAYROLL: 1984

SIC code	Industry	Number of establishments	Number of employees, March	Annual payroll ($1,000)
373	Ship and boat building & repairing	9	263	7,082
44	Water transportation	52	1,511	41,058
4463	Marine cargo handling	6	683	24,328
555	Boat dealers	18	81	798

Source: U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986), pp. 5-7.

Table 538.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1982 TO 1986

Category	1982	1983	1984	1985	1986
Documented 1/	1,225	1,300	1,203	1,306	1,348
Numbered 2/	12,999	12,604	13,122	13,443	...

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. The data for 1982 and 1983 are Coast Guard estimates. All data as of June 30.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered. All data as of December 31.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 539.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1985

Subject	Number	Subject	Number
Certificates outstanding	13,443	Type of vessel:	
		Cabin motorboat	1,958
Length:		Open motorboat	5,032
Under 16 feet	5,327	Runabout	2,807
16 to less than 26 feet	3,916	Sail/inboard	581
26 to less than 40 feet	3,975	Sail/outboard	612
Over 40 feet	200	Sail only	1,198
Dealers, manufact.	25	Motor vessel over 65 feet	6
Median (feet)	19.5	Other	1,249
Hull material:		Uses:	
Wood	1,853	Pleasure	11,474
Fiberglass	10,161	Commercial fishing	1,241
Metal	489	Charter fishing	14
Inflatable	643	Commercial passenger	210
Other	272	Other commercial	57
		Livery	175
Propulsion:		Dealer or manufacturer	25
Inboard	955	Youth group	25
Outboard	7,680	Government	165
Inboard/outboard	2,005	Other	57
Sail/inboard	581		
Sail/outboard	612	Island kept:	
Sail only	1,198	Hawaii	1,952
Other	387	Kauai	1,066
		Lanai	53
Type of storage:		Maui	1,223
On water	2,534	Molokai	178
On land	10,909	Oahu	8,971

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 540.-- BOATING ACCIDENTS: 1984 AND 1985

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1984	42	6	8	9	52	304.8
1985	41	2	5	10	50	417.3

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 541.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1976 TO 1986

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321
1984	1,686	10,397,905	2,660	3,649,085
1985	1,749	9,398,179	2,412	4,480,660
1986	1,825	9,450,373	2,697	4,913,219

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 542.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1984

[Excludes domestic fishing craft]

Harbor	Total inbound vessels	By type of vessel					By draft	
		Self propelled vessels			Non-self propelled vessels			
		Passenger and dry cargo	Tanker	Towboat or tugboat	Dry cargo	Tanker	18 feet and less	19 feet and more
Hilo	778	84	1	273	352	68	730	48
Kawaihae	436	14	-	161	256	5	426	10
Kailua, Kona	715	715	-	-	-	-	715	-
Kahului	1,144	91	6	382	591	74	1,081	63
Kaumalapau	710	165	-	264	281	-	710	-
Kaunakakai	618	-	-	233	382	3	(1/)	(1/)
Kalaupapa	8	-	-	4	4	-	8	-
Honolulu	5,954	2,188	37	1,575	1,953	201	5,317	637
Barbers Point	336	4	94	192	10	36	241	95
Nawiliwili	643	59	-	179	377	28	633	10
Port Allen	80	1	1	50	27	1	(2/)	(2/)

1/ Not available. All vessels were 22 feet and less.
2/ Not available. All vessels were 25 feet and less.
Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1984, Part 4 (1986), pp. 113-114.

Table 543.-- TRANSPACIFIC AND INTERISLAND SURFACE REVENUE PASSENGERS: 1980 TO 1985

Year	Transpacific passengers 1/			Inter-island passenger arrivals 2/
	Disembarking	Embarking	Intransit	
1980	399	353	11,421	15,763
1981	614	510	9,847	33,108
1982	542	461	6,785	39,057
1983	741	740	8,419	56,073
1984	726	361	6,692	78,443
1985	1,360	1,479	3,249	69,864

1/ Data refer to years ended June 30 through 1983 and calendar years thereafter. Data limited to the Port of Honolulu.

2/ Calendar year statistics. Interisland cruise ship service was begun June 21, 1980. Data exclude interisland travel by transpacific cruise ships.

Source: TheoDavies Marine Agencies, Inc., records, and American Hawaii Cruises, records.

Table 544.-- OVERSEAS AND INTERISLAND SHIPPING: 1979 TO 1984

[In short tons]

Calendar year	Overseas cargo			Interisland cargo		
	Total	In	Out	Total	In	Out
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384
1981 ...	11,683,330	9,389,458	2,293,872	7,230,395	3,691,297	3,539,098
1982 ...	10,503,229	8,168,339	2,334,890	7,204,456	3,697,785	3,506,671
1983 ...	11,853,502	9,371,317	2,482,185	8,337,860	4,285,416	4,052,444
1984 ...	11,506,043	8,972,870	2,533,173	8,973,092	4,530,456	4,442,636

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, November 10, 1986.

Table 545.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1974 TO 1984

Subject and year	Hilo	Kawaihae	Kahului	Hono-lulu 1/	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 2/ (SHORT TONS)						
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
1982	1,381,996	441,130	1,483,955	7,593,097	5,707,386	808,153
1983	1,522,442	441,458	1,842,568	8,039,850	7,051,230	1,008,699
1984	1,570,528	545,508	1,889,204	8,469,971	6,564,687	944,770
PASSENGERS 3/						
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-
1981	-	-	-	521,624	-	-
1982	-	-	-	465,466	-	-
1983	-	-	-	688,689	-	-
1984	-	-	-	741,922	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1984, Part 4 (1986), pp. 32-37.

Table 546.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1984

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total 1/	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Hilo	1,570,528	20,736	13,091	34,945	183,674	907,901	410,181
Sugar	183,411	-	-	-	183,350	36	25
Fabricated metal products	397,775	-	-	-	-	221,093	176,682
Kawaihae	545,508	124	5,030	-	220,184	199,501	120,669
Sugar	220,184	-	-	-	220,184	-	-
Kahului	1,889,204	21,453	34,536	8,599	233,972	1,139,450	451,194
Sugar	234,539	-	24	-	233,972	51	492
Distillate fuel oil	243,061	-	24,553	-	-	218,508	-
Fabricated metal products	366,270	-	-	-	-	240,971	125,299
Motor vehicles, parts, equipment	184,878	1,955	-	-	-	128,541	54,382
Barbers Point	6,564,687	2,283,612	521,576	3,589,807	118,500	-	51,192
Crude petroleum	4,937,716	2,251,828	-	2,685,888	-	-	-
Residual fuel oil	1,501,557	31,784	499,310	881,561	72,036	-	16,866
Honolulu	8,469,971	715,976	104,056	2,277,760	923,272	1,521,479	2,910,433
Fresh fruits	346,501	908	586	16,423	85,508	241,481	1,595
Crude petroleum	241,808	241,808	-	-	-	-	-
Vegetables and preparations, canned	185,891	3,560	248	93,729	12,407	49,471	26,476
Prep. fruit, veg. juice .	440,762	2,485	7,240	8,153	284,246	137,510	1,128
Animal feeds	155,706	1,030	1,503	90,884	-	2,062	60,227
Molasses	405,053	-	-	2,400	252,128	150,525	-
Alcoholic beverages	192,119	4,837	830	152,543	442	34	33,433
Misc. food products	254,012	5,156	3,399	28,067	3,276	116,370	97,744
Lumber	218,341	860	1,248	195,679	923	1,750	17,881
Gasoline	191,712	-	2	-	-	610	191,100

Continued on next page.

Table 546.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1984 - Con.

[In short tons. Commodities under 150,000 tons not shown separately]

Harbor and commodity	Total 1/	Foreign		Interstate		Interisland	
		Imports	Exports	Receipts	Shipments	Receipts	Shipments
Honolulu - Con.							
Jet fuel	245,753	73,276	-	155,465	-	-	16,566
Distillate fuel oil	446,457	6	732	4,111	11	-	441,421
Residual fuel oil	258,309	-	6,705	18	-	16,866	218,347
Fabricated metal products	1,223,447	6,951	706	49,314	1,390	468,754	696,332
Motor vehicles, parts, equipment	597,905	39,760	130	73,950	30,502	115,623	337,940
Nawiliwili	944,770	10,471	905	9,387	167,308	494,034	262,665
Sugar	167,311	-	-	-	167,308	3	-
Fabricated metal products	292,200	-	-	-	-	160,908	131,292
Hana	-	-	-	-	-	-	-
Pearl	(NA)	(NA)	(NA)	-	8,746	4,003	21,878
Kalaupapa	1,278	-	-	-	-	835	443
Kaunakakai	137,825	-	-	-	-	83,637	54,188
Port Allen	90,008	(NA)	(NA)	-	-	82,158	781
Kaumalapau	265,356	-	-	-	-	50,269	215,087
Fresh fruits	214,456	-	-	-	-	80	214,376

NA Not available.

1/ Includes internal receipts and local traffic, not separately shown. Internal receipts amounted to 6,978 tons, all residual fuel oil at Honolulu. Local traffic amounted to 10,017 tons, also at Honolulu (including 9,395 tons of residual fuel oil).

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1984, Part 4 (June 1986), pp. 32-38, and unpublished printouts.

Table 547 .-- WATERBORNE EXPORTS AND GENERAL IMPORTS, BY PORT OF LADING OR UNLADING: 1984

Category	Honolulu Customs District	Hono-lulu	Hilo	Kahu-lui	Nawili-wili-Pt Allen
WATERBORNE EXPORTS					
Shipping weight 1/	1,375	1,253	36	69	16
Dry cargo, total	202	195	7	1	(Z)
Domestic and foreign ..	201	194	7	1	(Z)
In-transit	1	1	-	(Z)	(Z)
Dept. of Defense 2/ ...	(Z)	(Z)	-	-	-
Tanker, total 3/	1,172	1,058	30	68	16
Domestic and foreign ..	1,172	1,058	30	68	16
Value: 4/					
Dry cargo, total	51	51	(Z)	(Z)	(Z)
Domestic and foreign ..	51	50	(Z)	(Z)	(Z)
Tanker, total	94	86	(Z)	7	(Z)
Domestic and foreign ..	94	86	(Z)	7	(Z)
WATERBORNE GENERAL IMPORTS					
Shipping weight 1/	6,105	5,999	42	43	21
Dry cargo, total	835	729	42	43	21
General imports	834	729	42	43	21
In-transit	(Z)	(Z)	-	-	-
Tanker, total 3/	5,270	5,270	-	-	-
General imports	5,270	5,270	-	-	-
Value 4/	980	954	2	22	1
Dry cargo, total 3/	479	453	2	22	1
General imports	478	452	2	22	1
Tanker, total 3/	502	502	-	-	-
General imports	502	502	-	-	-

Z Less than half of the unit of measurement shown.

1/ In millions of pounds.

2/ Includes special category non-DoD controlled cargo.

3/ Includes in-transit.

4/ In millions of dollars.

Source: U.S. Bureau of the Census, U.S. Waterborne Exports and General Imports, Annual 1984, FT985-84-13 (August 1985).

Section 19

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, poultry, and aquaculture. Related information appears in Sections 6 (on land use), 12 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,600 farms in Hawaii in 1985, with a total area of 1.95 million acres. The value of crop sales in 1985 was $445 million, or 39 percent higher than the total for 1975. Livestock sales amounted to $83 million, or 42 percent more than the 1975 level. Combined crop and livestock sales in 1985 ranged from $65 million in Kauai County to $171 million on the Big Island. Major crops were sugar ($222 million in sales, down 6 percent over the decade), pineapple ($91 million, or 118 percent over the 1975 total), flowers and nursery products ($44 million, or 353 percent more than in 1975), vegetables and melons ($30 million, up 161 percent), and macadamia nuts ($30 million, up 429 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from $41 million in 1975 to $132 million in 1985, or approximately 225 percent. About 670 farms sold $44 million of flowers and nursery products in 1985, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1985 included cattle ($27 million in sales), milk ($28 million), and eggs ($14 million). In 1985, Hawaii produced 40 percent of the fresh market vegetables consumed locally, 28 percent of the fresh market fruits, 32 percent of the beef and veal, 20 percent of the chickens, and 83 percent of the eggs.

Aquaculture has been growing in importance in recent years, with an aggregate value rising from $1,655,000 in 1980 to $2.3 million in 1985. Freshwater prawn production amounted to 283,000 pounds in 1985, with a value of more than $1.5 million.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $810 million worth of marijuana in 1985, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, most recently conducted as of 1982, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Statistics Service, and data compiled by the Hawaiian Sugar Planters' Association and the Aquaculture Development Program of the Department of Land and Natural Resources. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1986.

Table 548.-- FARMS, LAND IN FARMS, AND LAND USE: 1982 AND 1978

Subject		1982	1978
Farms	number	4,595	4,310
Land in farms	acres	1,957,501	1,988,282
Average size of farm	acres	426	461
Value of land and buildings:			
Average per farm	dollars	778,471	413,948
Average per acre	dollars	1,826	897
Farms by size:			
1 to 9 acres		2,743	2,527
10 to 49 acres		1,261	1,211
50 to 179 acres		320	296
180 to 499 acres		126	146
500 to 999 acres		33	24
1,000 to 1,999 acres		33	32
2,000 acres or more		79	74
Land in farms according to use:			
Total cropland	farms	3,836	3,565
	acres	346,113	333,262
Harvested cropland	farms	3,538	3,299
	acres	155,960	158,639
Cropland used only for pasture or grazing	farms	400	272
	acres	33,557	27,191
Other cropland	farms	855	1,089
	acres	156,596	147,432
Woodland, including woodland pastured	farms	148	146
	acres	117,270	145,802
Pastureland and rangeland other than cropland and woodland pastured	farms	743	611
	acres	1,132,849	1,143,095
Land in house lots, ponds, roads, wasteland, etc.	farms	2,227	1,859
	acres	361,269	366,123
Irrigated land	farms	1,544	1,493
	acres	145,982	159,323

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 1 and 4.

Table 549.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978

Subject		1982	1978
Farms by type of organization:			
Individual or family	number	3,852	3,614
	acres	481,212	656,332
Partnership	number	351	326
	acres	130,761	222,668
Corporation:			
Family held	number	272	233
	acres	507,280	377,595
Other than family held	number	80	93
	acres	492,941	595,644
Other -- cooperative, estate or trust, institutional, etc.	number	40	44
	acres	345,307	136,043
Tenure of operator:			
Full owners	farms	2,332	2,111
	acres	328,728	281,019
Part owners	farms	794	713
	acres	1,286,352	1,388,319
Owned land in farms	acres	537,945	603,654
Rented land in farms	acres	748,407	784,665
Tenants	farms	1,469	1,486
	acres	342,421	318,944
Operators by principal occupation and residence:			
Farming 1/..............................		2,565	2,239
Residence on farm operated		1,629	1,287
Residence not on farm operated		657	516
Other than farming 1/....................		2,030	2,071
Residence on farm operated		1,043	890
Residence not on farm operated		779	660
Operators by age group:			
Under 25 years		35	51
25 to 34 years		630	535
35 to 44 years		794	600
45 to 54 years		803	1,005
55 to 64 years		1,325	1,270
65 years and over		1,008	849
Average age		52.7	52.7
Female operators:			
Farms	number	615	579
Land in farms	acres	129,674	132,173

Continued on next page.

Table 549.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978 -- Con.

Subject	1982	1978
Operators by race:		
White	1,304	1,039
Black and other races	3,291	3,271
Operators reporting days of work off farm:		
Any	2,534	2,495
100 days or more	2,024	1,878

1/ Components do not sum to category total because of non-reporting.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984), table 2, and 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 1, tables 5 and 46.

Table 550.-- MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD, BY COUNTIES: 1982 AND 1978

Year	State total	Hawaii	Honolulu	Kauai	Maui
Total sales ($1,000):					
1982	558,608	206,427	144,028	70,957	137,196
1978	419,251	148,399	118,608	48,679	103,564
Sales per farm (dollars):					
1982	121,569	81,302	147,570	173,066	204,771
1978	97,274	65,490	112,639	131,920	166,502

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, table 3.

Table 551.-- FARMS, LAND IN FARMS, AND LAND USE, FOR COUNTIES: 1982

Subject		Hawaii	Hono-lulu	Kauai	Maui 1/
Farms	number	2,539	976	410	670
Land in farms	acres	1,172,448	125,932	255,981	403,140
Average size of farm	acres	462	129	624	602
Value of land and buildings:					
Average per farm	dollars	639,822	389,732	1,833,704	1,225,224
Average per acre	dollars	1,385	3,017	2,930	2,036
Farms by size:					
1 to 9 acres		1,468	768	191	316
10 to 49 acres		746	141	136	238
50 to 179 acres		178	27	51	64
180 to 499 acres		68	17	16	25
500 to 999 acres		21	8	1	3
1,000 to 1,999 acres		13	8	7	5
2,000 acres or more		45	7	8	19
Land in farms according to use:					
Total cropland	farms	2,286	757	286	507
	acres	135,796	50,614	51,868	107,835
Harvested cropland	farms	2,123	732	240	443
	acres	59,629	(D)	24,039	(D)
Cropland used only for pasture or grazing	farms	195	32	77	96
	acres	17,438	(D)	2,670	(D)
Other cropland	farms	514	142	78	121
	acres	58,729	22,696	25,159	50,012
Woodland, including woodland pastured	farms	80	22	13	33
	acres	80,103	20,366	1,636	15,165
Pastureland and rangeland other than cropland and woodland pastured	farms	339	84	145	175
	acres	788,077	27,873	108,759	208,140
Land in house lots, ponds, roads, wasteland, etc.	farms	1,109	475	251	392
	acres	168,472	27,079	93,718	72,000
Irrigated land	acres	11,870	36,131	34,414	63,567

D Withheld to avoid disclosing data for individual farms.

1/ Includes Kalawao (no farms in 1982).

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chapter 2, tables 1, 2, and 4.

Table 552.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT: 1970 TO 1985

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members	Hired workers
1970	4,500	2,300	3,200	1,450	12,450
1971	4,400	2,300	3,050	1,500	11,810
1972	4,300	2,300	3,050	1,550	11,220
1973	4,300	2,300	3,050	1,550	10,770
1974	3,800	2,200	3,040	1,660	10,180
1975	3,900	2,150	3,060	1,720	11,040
1976	4,000	2,100	2,890	1,560	11,240
1977	4,100	2,050	2,840	1,550	11,300
1978	4,300	1,980	2,890	1,810	11,600
1979	4,300	1,980	3,020	1,520	10,800
1980	4,300	1,970	3,400	1,100	10,550
1981	4,400	1,965	3,100	900	10,500
1982	4,500	1,960	2,600	1,300	13,000
1983	4,500	1,960	2,500	1,500	13,000
1984 4/	4,600	1,950	2,200	1,300	11,800
1985	4,600	1,950	2,200	1,200	10,600

1/ Based on farm definition of $600 or more of agricultural sales prior to 1974 and $1,000 or more thereafter.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Annual averages through 1980, and varying dates thereafter.

4/ Revised from Data Book 1985, table 530.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 553.-- VALUE OF CROP AND LIVESTOCK SALES: 1970 TO 1985

[$1,000]

Year	All crops and livestock	Crops					Livestock
		All crops	Sugar (unprocessed cane)	Pineapples (fresh equiv.)	Other crops		
1970	213,667	172,019	110,600	39,500	21,919		41,648
1971	221,692	178,639	115,800	40,300	22,539		43,053
1972	232,497	186,255	117,300	43,900	25,055		46,242
1973	265,771	210,502	141,900	39,600	29,002		55,269
1974	575,432	517,523	442,300	40,259	34,964		57,909
1975	377,575	319,304	237,000	41,616	40,688		58,271
1976	327,820	265,498	164,700	52,983	47,815		62,322
1977	325,182	260,164	144,200	62,249	53,715		65,018
1978	380,655	308,098	182,700	63,090	62,308		72,557
1979	441,253	362,789	217,600	69,409	75,780		78,464
1980	634,101	552,877	385,100	76,596	91,181		81,224
1981	489,502	401,348	207,500	89,745	104,103		88,154
1982 1/ ...	507,268	428,860	230,800	94,364	103,696		78,408
1983 1/ ...	568,422	481,934	266,900	100,376	114,658		86,488
1984 1/ ...	550,516	463,501	256,200	89,928	117,373		87,015
1985	527,877	445,056	222,400	90,530	132,126		82,821

1/ Revised from Data Book 1985, table 531.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 554.-- NUMBER OF FARMS, FARM ACREAGE, AND FARM EMPLOYMENT, BY COUNTIES OR ISLANDS: 1975, 1984, AND 1985

County or island	Number of farms 1/	Farm acreage 2/ (1,000)	Farm employment 3/		
			Self-employed farm operators	Unpaid family members	Hired workers
State total:					
1975	3,900	2,150	3,060	1,720	11,040
1984 4/	4,600	1,950	2,200	1,300	11,800
1985	4,600	1,950	2,200	1,200	10,600
Hawaii Co.:					
1975	2,250	1,290	1,560	750	3,380
1984 4/	2,650	1,140	1,500	900	3,800
1985	2,650	1,140	1,400	800	3,500
Maui Co.:					
1975	500	445	420	190	3,350
1984	550	420	300	100	3,700
1985	550	420	250	150	2,950
Oahu:					
1975	850	135	790	640	2,760
1984	1,025	120	400	300	2,850
1985	1,025	120	450	250	2,750
Kauai Co.:					
1975	300	280	290	140	1,550
1984	375	275	100	50	1,400
1985	375	275	150	50	1,300

1/ Based on farm definition of $1,000 or more of agricultural sales.

2/ Includes land not in crops and pasture, such as farm house lots, roads, woodlots, etc.

3/ Data not comparable among years shown due to changes in survey periods; sum of county estimates may not add due to rounding.

4/ Revised from Data Book 1985, table 532.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 555.-- VALUE OF CROP AND LIVESTOCK SALES, BY COUNTIES OR ISLANDS: 1975, 1984, AND 1985

[$1,000]

County and year	All crops and livestock	Crops				Livestock
		All crops	Sugar (unprocessed cane)	Pineapples (fresh equiv.)	Other crops	
State total:						
1975	377,575	319,304	237,000	41,616	40,688	58,271
1984 1/ ...	550,516	463,501	256,200	89,928	117,373	87,015
1985	527,877	445,056	222,400	90,530	132,126	82,821
Hawaii Co.:						
1975	123,636	108,062	87,800	-	20,262	15,574
1984 1/	185,215	161,982	94,000	-	67,982	23,233
1985	171,077	148,955	69,800	-	79,155	22,122
Maui Co.:						
1975	94,933	87,797	55,900	25,010	6,887	7,136
1984 1/	145,419	132,898	72,600	42,176	18,122	12,521
1985	131,504	119,289	63,600	36,380	19,309	12,215
Oahu:						
1975	102,422	69,706	42,000	16,606	11,100	32,716
1984 1/	156,328	110,270	37,200	47,752	25,318	46,058
1985	160,628	117,213	35,700	54,150	27,363	43,415
Kauai Co.:						
1975	56,584	53,739	51,300	-	2,439	2,845
1984 1/	63,554	58,351	52,400	(2/)	5,951	5,203
1985	64,668	59,599	53,300	(2/)	6,299	5,069

1/ Revised from Data Book 1985, table 533.
2/ Less than $50,000.
Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 556.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1975, 1984, AND 1985

Subject	1975	1984 1/	1985
Acreage in crop (1,000 acres):			
Sugarcane	221.4	188.4	187.9
Pineapples (land used for pineapple)	50.0	35.0	34.5
Vegetables and melons (harvested acreage)	3.6	5.3	5.4
Fruits, excluding pineapples	4.6	6.5	6.5
Coffee	2.4	2.0	2.1
Macadamia nuts	10.4	16.9	20.0
Miscellaneous crops	5.7	12.0	8.6
Number of crop farms:			
Sugar	520	185	155
Pineapples	20	18	18
Vegetables and melons	497	677	715
Fruits (excluding pineapples)	577	800	805
Coffee	780	615	620
Macadamia nuts	444	605	610
Taro	128	137	155
Flowers and nursery products	465	670	670
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	9,485	8,454	7,916
Pineapples, fresh equivalent (1,000 tons)	720	600	565
Vegetables and melons (1,000 lb.)	63,895	87,350	89,620
Fruits, excluding pineapples (1,000 lb.)	54,411	99,430	80,980
Coffee, parchment (1,000 lb.)	1,860	1,750	1,700
Macadamia nuts, in shell (1,000 lb.)	18,210	37,700	42,000
Taro (1,000 lb.)	7,592	6,310	6,860
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	237,000	256,200	222,400
Pineapples (fresh equivalent)	41,616	89,928	90,530
Vegetables and melons	11,529	26,609	30,034
Fruits (excluding pineapples)	7,347	13,315	12,794
Coffee (parchment)	1,399	4,812	4,675
Macadamia nuts (in shell)	5,754	26,088	30,450
Taro	851	1,382	1,578
Field crops (not estimated separately)	3,861	6,062	8,148
Flowers and nursery products	9,767	38,905	44,247
Forest products	180	(NA)	(NA)

NA Not available.

1/ Revised from Data Book 1985, table 534.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 557.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1985

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	69.9	47.2	27.1	43.7
Pineapples (land used for pineapple)	-	23.0	11.5	(1/)
Vegetables and melons (harvested acreage)	2.0	1.9	1.4	0.1
Fruits, excluding pineapple	4.8	0.1	0.7	0.9
Coffee	2.1	-	-	-
Macadamia nuts	18.2	(D)	(D)	(D)
Miscellaneous crops	3.2	4.1	0.6	0.7
Number of crop farms:				
Sugar	144	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	340	75	240	60
Fruits (excluding pineapples)	535	45	145	80
Coffee	620	-	-	-
Macadamia nuts	600	3	3	4
Taro	72	23	12	48
Flowers and nursery products	305	85	250	30
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	2,686	2,208	1,220	1,802
Pineapples, fresh equivalent (1,000 tons)	-	358	207	(2/)
Vegetables and melons (1,000 lb.)	37,130	35,590	15,210	1,690
Fruits, excluding pineapples (1,000 lb.)	64,030	1,260	5,260	10,430
Coffee, parchment (1,000 lb.)	1,700	-	-	-
Macadamia nuts, in shell (1,000 lb.)	41,400	(D)	(D)	(D)
Taro (1,000 lb.)	1,010	(D)	(D)	4,780
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	69,800	63,600	35,700	53,300
Pineapples (fresh equivalent)	-	36,380	54,150	(3/)
Vegetables and melons	12,486	9,731	7,209	608
Fruits (excluding pineapples)	9,284	255	1,558	1,697
Coffee (parchment)	4,675	-	-	-
Macadamia nuts (in shell)	30,015	(D)	(D)	(D)
Taro	290	(D)	(D)	1,032
Field crops (not estimated separately)	2,615	3,442	330	1,761
Flowers and nursery products	19,605	5,273	18,190	1,179

D Withheld to avoid disclosure of individual operations.
1/ Less than 500 acres.
2/ Less than 500 tons.
3/ Less than $50,000.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1985, pp. 3, 4, 6, 8, and 9.

Table 558.-- VEGETABLES, MELONS, FRUITS, NUTS, COFFEE, AND TARO: 1985

[Data shown for crops with sales in excess of $500,000]

Crop	Acreage harvested 1/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables and melons:					
Snap beans	160	7.8	1,250	77.2	965
Burdock	45	16.7	750	66.8	501
Chinese cabbage	370	22.4	8,300	13.6	1,129
Head cabbage	460	28.9	13,300	16.3	2,168
Celery	110	31.4	3,450	19.5	673
Cucumbers	260	16.2	4,200	29.7	1,247
Daikon	260	13.8	3,600	17.8	641
Eggplant	55	24.4	1,340	51.0	683
Ginger root	125	43.4	5,425	82.3	4,465
Lettuce (head, semi-head)	650	14.5	9,400	24.9	2,341
Dry onions	165	11.5	1,890	71.6	1,353
Green onions	200	7.1	1,410	75.7	1,067
Watercress	35	...	1,530	79.2	1,212
Green peppers	120	12.3	1,480	55.0	814
Romaine	150	16.8	2,520	22.8	575
Sweet potatoes	200	9.6	1,910	28.6	546
Tomatoes	300	26.0	7,800	40.2	3,136
Watermelons	480	18.3	8,800	17.0	1,496
Fruits:					
Bananas	840	9.7	8,160	30.3	2,472
Guavas	680	...	8,890	10.2	907
Papayas	2,650	22.8	60,400	14.2	8,579
Macadamia nuts (1985-1986)	13,500	3.1	42,000	72.5	30,450
Coffee (1985-1986)	1,700	1.0	1,700	275.0	4,675
Taro	400	...	6,860	23.0	1,578

1/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1985, pp. 32-68.

Table 559.-- FRESH FRUIT AND VEGETABLE ARRIVALS IN HONOLULU, BY SOURCE: 1983 TO 1985

[1,000 pounds, net]

Source	1983	1984	1985
Total arrivals	256,952	265,998	275,623
From Hawaii	95,448	102,323	101,080
Oahu 1/	44,635	47,331	44,260
Other islands 2/	50,813	54,992	56,820
Hawaii 2/	28,276	30,488	29,188
Maui 2/	17,586	15,089	15,949
Molokai 2/	3,430	6,268	8,654
Kauai 2/	1,521	3,147	3,029
From U.S. Mainland 2/	157,398	158,368	165,833
From foreign countries 2/	4,106	5,307	8,710

1/ Wholesalers' truck receipts.
2/ Ship and plane arrivals.

Source: Hawaii State Department of Agriculture, Market News Service, Honolulu Arrivals, Fresh Fruits and Vegetables, 1985 (April 1986), table 1.

Table 560.--FEED INSHIPMENTS FROM ALL SOURCES: 1981 TO 1985

[1,000 tons]

Commodity	1981	1982	1983	1984	1985
Total feed	172.0	167.8	193.0	191.6	170.2
Feed grains	67.0	67.5	89.8	88.4	78.4
Mixed feeds	29.7	25.0	24.5	21.8	18.5
Alfalfa products	22.7	26.1	30.2	32.3	24.1
Protein foods	30.6	29.9	26.5	29.6	28.6
Other feed stuff	22.0	19.3	21.9	19.5	20.6

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1985, p. 92.

Table 561.-- LIVESTOCK INVENTORY, 1975, 1984, AND 1985, AND BY GEOGRAPHIC AREAS, 1985

[In thousands]

Year and geographic area	All cattle and calves 1/	Milk cows 2/	Hogs and pigs 3/	Chickens (excluding broilers) 3/	Bee colonies
1975	250	13	58	1,243	6
1984 4/	221	12	47	1,195	9
1985	209	11	55	1,210	9
GEOGRAPHIC AREAS: 1985					
Hawaii County	123.9	1.5	4.8	168	(NA)
Maui	31.7	1.0	10.2	(5/)	(NA)
Molokai and Lanai	5.4	-	1.0	(5/)	(NA)
Oahu	33.0	8.3	33.6	1,042	(NA)
Kauai County	15.0	0.5	5.4	(5/)	(NA)

NA Not available.

1/ As of following January 1.

2/ As of January 1.

3/ As of December 1.

4/ Revised from Data Book 1985, table 537.

5/ Kauai, Maui, and Molokai combined with Hawaii to avoid disclosure of individual operations.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 562.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1975, 1984, AND 1985

Subject	1975	1984 1/	1985
Number of livestock operations, Dec. 31:			
Cattle 2/	930	850	850
Hogs	620	650	650
Milk	100	90	90
Eggs	80	55	55
Broilers	10	8	7
Honey	22	25	22
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 3/	27,283	32,116	33,928
Pork (dressed weight; 1,000 lb.)	7,902	7,878	7,859
Milk (million lb.)	143.7	146.0	139.8
Eggs (million)	209	209.7	220.5
Broilers and chickens (1,000 lb.) 4/	5,659	8,102	7,706
Honey (1,000 lb.)	426	1,089	1,184
Value of livestock sales ($1,000):			
Cattle 5/	17,412	28,101	26,632
Hogs 5/	6,142	8,088	7,995
Milk	20,549	29,288	28,310
Eggs	11,234	15,535	14,020
Broilers and chickens	2,638	5,189	4,895
Other 6/	289	814	969

1/ Revised from Data Book 1985, table 538.
2/ As of January 1; includes beef, dairy, and dairy replacement farms.
3/ Includes slaughter cattle, but excludes calves shipped out-of-State.
4/ Ready-to-cook weight.
5/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.
6/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 563.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1985

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	400	205	80	165
Hogs	85	110	335	120
Milk	41	16	20	13
Eggs	24	7	20	4
Broilers	-	-	6	1
Honey	7	4	3	8
Volume of livestock marketings:				
Beef 2/ (dressed weight; 1,000 lb.)	21,824	8,447	1,539	2,118
Pork (dressed weight; 1,000 lb.)	700	1,803	4,667	689
Milk (million lb.)	(D)	(D)	107.0	(D)
Eggs (million)	(D)	(D)	186.4	(D)
Broilers and chickens 3/ (1,000 lb.)	-	-	(D)	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	16,870	6,820	1,082	1,860
Hogs 4/	760	1,935	4,542	758
Milk	(D)	(D)	21,710	(D)
Eggs	(D)	(D)	11,477	(D)
Broilers and chickens	-	-	(D)	(D)
Other 5/	662	149	43	115

D Withheld to avoid disclosure of individual operations.

1/ As of January 1; includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

5/ Includes sheep, wool, turkeys, horses, honey, and beeswax.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1985, pp. 5, 7, and 10.

Table 564.-- FLOWERS AND NURSERY PRODUCTS, 1983 TO 1985, AND BY ISLANDS, 1985

Island and year	Number of farms	Area					Value of sales ($1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1983	680	1,786	2,327	26,329	106	1,022	36,165
1984 1/	670	1,715	2,414	26,817	92	959	38,905
1985	670	1,761	2,836	29,643	91	924	44,247
Islands, 1985:							
Hawaii	305	966	1,439	19,087	82	413	19,605
Kauai	30	37	12	244	5	26	1,179
Maui	85	296	307	1,286	-	259	5,273
Oahu	250	462	1,078	9,026	4	226	18,190

1/ Revised from Data Book 1985, table 540.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (August 6, 1986).

Table 565.-- VALUE OF SALES, TOTAL AND OUT-OF-STATE, FOR FLOWERS AND NURSERY PRODUCTS: 1981 TO 1985

[$1,000]

Subject	1981	1982	1983	1984	1985
Total sales	29,482	30,600	36,165	38,905	44,247
Anthuriums, cut	5,295	5,633	6,035	7,351	7,645
Out-of-State sales	15,976	17,909	22,000	21,610	24,284
Anthuriums, cut	6,237	6,370	7,005	7,050	7,581

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1985, pp. 23 and 31.

Table 566.-- FLOWERS AND NURSERY PRODUCTS, BY COMMODITY: 1985

[Shown for commodities with value of sales over $500,000]

Commodity	Number of farms	Number sold		Value of sales ($1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	195	1,000 dozens	2,305	7,645
Roses	10	1,000 dozens	645	1,956
Chrysanthemums, pompon	14	1,000 bunches	455	833
Orchids:				
Cut: Dendrobium sprays	74	1,000 dozens	270	1,687
Potted: Dendrobiums	88	1,000 pots	201	1,061
Lei flowers:				
Carnations	19	Million blooms	31.0	1,149
Vanda, Miss Joaquim	31	Million blooms	24.0	1,015
Tuberose	8	Million blooms	36.0	1,149
Foliage:				
Potted, primarily for --				
Indoor or patio use	110	...	(NA)	12,019
Landscape use	45	...	(NA)	1,812
Unfinished stock (for further growing on)	29	...	(NA)	1,845
Potted flowering plants:				
Chrysanthemums	13	1,000 pots	240	779
Poinsettias	38		192	618
Ornamentals and trees	40	...	(NA)	603

NA Not available.

Source: Hawaii Agricultural Statistics Service, Hawaii Flowers & Nursery Products, Annual Summary (August 6, 1986).

Table 567.-- MARKET SUPPLY OF SPECIFIED FOODS: 1975, 1984, AND 1985

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits:					
1975	63,518	43,251	20,267	67.3	31.9
1984 3/	89,648	64,318	25,330	78.7	28.3
1985	94,513	68,083	26,430	82.0	28.0
Fresh market melons:					
1975	9,025	6,615	2,410	9.6	26.7
1984	19,636	13,531	6,105	17.2	31.1
1985	21,964	13,164	8,800	19.1	40.1
Fresh market vegetables:					
1975	132,641	73,803	58,838	140.6	44.4
1984 3/	194,038	114,508	79,530	170.2	41.0
1985	201,122	121,602	79,520	174.6	39.5
Beef and veal: 4/					
1975	86,229	59,229	27,000	91.4	31.3
1984 3/	104,388	72,272	32,116	91.6	30.8
1985	105,084	71,156	33,928	91.2	32.3
Pork: 4/					
1975	29,456	21,554	7,905	31.2	26.8
1984	37,492	29,614	7,878	32.9	21.0
1985	37,927	30,068	7,859	32.9	20.7
Chickens:					
1975	24,901	19,242	5,659	26.4	22.7
1984	37,887	29,785	8,102	33.2	21.4
1985	39,011	31,305	7,706	33.9	19.8
Eggs:					
1975	18,897	1,497	17,400	20.0	92.1
1984 3/	22,285	4,810	17,475	19.6	78.4
1985	22,217	3,842	18,375	19.3	82.7

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population estimates in DPED Statistical Reports 173 and 190.

3/ Revised from Data Book 1985, table 543.

4/ Carcass weight equivalent.

Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture (annual).

Table 568.-- AGRICULTURAL, URBAN AND OTHER LAND USE, FOR THE SIX LARGEST ISLANDS: 1978-1980

[Estimated area in thousands of acres, as measured from 1:24,000-scale quadrangle maps. These data differ somewhat from the official statistics compiled from surveys of farmers and ranchers and published in Statistics of Hawaiian Agriculture (annual), cited elsewhere in this section. For greater detail, see Data Book 1984, table 584]

Land use	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total land area	4,034.70	2,573.40	465.80	90.50	165.80	385.30	353.90
Agriculture	1,442.20	960.17	216.39	16.92	86.23	77.55	84.94
Sugarcane	251.05	104.13	54.92	-	-	38.68	53.32
Pineapple	44.54	-	11.11	16.82	3.61	12.98	.02
Field crops	17.88	11.06	2.40	-	1.27	2.82	.33
Orchards	35.68	30.08	2.42	-	.08	1.51	1.59
Wetland crops	.67	.13	.15	-	.01	.07	.31
Aquaculture	.58	.12	.02	-	-	.35	.09
Livestock	1,091.80	814.65	145.37	.10	81.26	21.14	29.28
Feedlot	4.77	1.54	1.97	-	-	1.00	.26
Grazing	1,086.09	813.02	142.55	.10	81.26	20.14	29.02
Other 1/	.94	.09	.85	-	-	-	-
Urban 2/	163.61	36.22	18.91	4.61	4.11	87.43	12.33
Built-up	107.55	15.90	9.64	.33	1.29	71.60	8.79
Vacant	56.06	20.32	9.27	4.28	2.82	15.83	3.54
In agric. use	10.06	2.01	1.56	.31	.43	4.48	1.27
Balance 3/	2,428.89	1,577.01	230.50	68.97	75.46	220.32	256.63

1/ Unidentified livestock, also including grazing.

2/ Includes Rural District lands.

3/ Includes Conservation District lands.

Source: Hawaii State Department of Agriculture, Annual Report, Fiscal Year 1983, p. 27.

Table 569.-- LAND EVALUATION RATING, FOR SIX MAJOR ISLANDS: 1985

[Thousand acres. The Land Evaluation and Site Assessment Commission land evaluation rating is a composite index, scaled from 0 to 100, based on measurements of soil productivity and the suitableness of land for agricultural purposes. Data exclude Kahoolawe, Niihau, Lehua, Kaula, and the Northwestern Hawaiian Islands]

Land evaluation rating	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total area	4,042	2,579	466	90	166	386	355
90 to 100	66	-	17	3	7	39	-
80 to 89	137	17	39	11	16	33	20
70 to 79	189	95	20	2	6	27	40
60 to 69	212	125	36	(Z)	9	22	20
50 to 59	221	113	64	3	10	12	18
40 to 49	309	227	40	6	10	18	7
30 to 39	605	543	29	1	3	11	17
20 to 29	492	282	55	48	50	30	26
10 to 19	1,813	1,176	165	15	55	194	206
Under 10	-	-	-	-	-	-	-
CUMULATIVE							
90 or more	66	-	17	3	7	39	-
80 or more	203	17	56	14	23	72	20
70 or more	392	112	76	15	29	99	61
60 or more	604	237	112	16	38	121	80
50 or more	825	350	176	19	48	133	99
40 or more	1,134	577	216	25	58	151	106
30 or more	1,738	1,121	245	26	61	162	122
20 or more	2,230	1,402	300	75	112	192	149

Z Less than 500 acres.

Source: Land Evaluation and Site Assessment Commission, A Progress Report of the State of Hawaii Land Evaluation and Site Assessment System to the Thirteenth Legislature, State of Hawaii (March 1985), p. 29, and A Report on the State of Hawaii Land Evaluation and Site Assessment System (February 1986), Exhibit A.

Table 570. -- AGRICULTURAL CHEMICALS USED, INCLUDING FERTILIZER AND LIME: 1982 AND 1978

Chemicals used		1982	1978
Any chemicals, fertilizer, or lime used	farms	3,532	3,568
Commercial fertilizer	farms	3,158	3,172
	acres on which used	228,984	284,452
	$1,000	33,477	26,530
Lime	farms	525	525
	acres on which used	9,547	12,488
	tons	10,423	12,011
Other agricultural chemicals 1/	farms	3,084	3,277
	$1,000	16,417	13,700
Sprays, dusts, granules, fumigants, etc., to control --			
Insects on hay and other crops	farms	1,702	1,204
	acres on which used	45,671	28,787
Nematodes in crops	farms	654	441
	acres on which used	9,638	9,806
Diseases in crops and orchards	farms	1,067	912
	acres on which used	18,085	12,310
Weeds, grass, or brush in crops and pasture	farms	2,385	2,325
	acres on which used	213,551	269,801
Chemicals used for defoliation or for growth control of crops or thinning of fruit	farms	165	160
	acres on which used	50,455	57,280

1/ Data for 1978 include the cost of lime which was not collected in 1982.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, State and County Data, AC82-A-11 (September 1984), Chap. 1, table 16.

Table 571.-- FERTILIZER CONSUMPTION BY TYPE: 1982 TO 1985

[In tons. For years ended June 30]

Year	Total	Mixtures 1/	Direct application materials	
			Primary nutrient 2/	Secondary and micro-nutrient
1982	156,439	100,797	54,627	1,015
1983	138,343	97,360	40,114	869
1984	128,348	83,544	44,108	696
1985	151,955	94,659	56,309	987

1/ Fertilizers having various combinations of primary nutrients.
2/ The primary nutrients are nitrogen, phosphate, and potash.
Source: Hawaii Agricultural Statistics Service, Statistics of Hawaiian Agriculture 1985, p. 95.

Table 572.-- SALES OF AQUACULTURAL PRODUCTS, BY ISLANDS: 1982

Subject	State total	Oahu	Other islands
Number of farms	13	9	4
Water surface area (acres) ...	189	155	34
Sales ($1,000)	884	755	129

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Geographic Area Series, Hawaii, AC82-A-11 (September 1984), Chapter 2, table 21.

Table 573.-- NUMBER OF AQUACULTURE INDUSTRY OPERATIONS, BY COUNTIES: 1980 TO 1985

[As of December 31]

County	1980	1981	1982	1983	1984	1985
ALL AQUACULTURE INDUSTRY OPERATIONS						
State total	37	41	44	42	47	48
Hawaii	5	6	8	8	14	12
Maui	2	6	5	5	5	6
Honolulu	25	24	25	24	23	24
Kauai	5	5	6	5	5	6
PRAWN PRODUCERS						
State total	24	21	22	21	17	20
Hawaii	4	4	4	3	3	5
Maui	1	1	1	1	1	-
Honolulu	16	13	13	13	10	11
Kauai	3	3	4	4	3	4

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 20, 1986.

Table 574.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE AND COUNTIES: 1983 TO 1985

Subject and year	State total	Type		County			
		Fresh-water prawns	Other species 1/	Hawaii	Maui	Hono-lulu	Kauai
Acreage: 2/							
1983	496	239	257	34	40	378	44
1984	474	246	228	45	26	369	34
1985	465	219	246	54	43	333	35
Production: 3/							
1983	344.9	268.5	76.4	22.9	15.7	274.8	31.5
1984	441.2	317.8	123.4	36.9	26.5	332.2	45.6
1985	582.9	283.3	299.6	33.4	29.5	485.4	34.6
Value: 4/							
1983	1,604.8	1,347.3	257.5	90.8	46.6	1,302.9	164.5
1984	2,299.7	1,706.6	593.1	126.5	97.4	1,831.0	244.8
1985	2,780.5	1,550.6	1,229.9	196.5	134.9	2,255.2	193.9

1/ Juvenile freshwater prawns, marine shrimp, oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, trout, abalone, ogo and microalgae.

2/ As of December 31.

3/ In thousands of pounds. Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

4/ In thousands of dollars.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, October 20, 1986.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial timberland in the State, most of it on the Big Island. Over 46,000 acres had been planted in eucalyptus and other species of trees by mid-1985. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. Forest and brushland fires burned 3,700 acres in fiscal 1985.

The commercial fish catch in fiscal year 1985 amounted to 9.4 million pounds and had a value of $16 million. Ahi (yellowfin) and aku (skipjack) accounted for about 37 percent of the total value. Other important species are lobster, opakapaka, mahimahi, and ono. Commercial fishermen numbered 2,638. The charter fishing fleet made 16,700 passenger trips in 1983, chiefly serving visitors. Their average catch per full-day trip was 0.6 fish per patron.

The value of mineral production reached $59 million in 1985, most of it in cement ($20 million) and stone ($34 million). The 1985 total was somewhat below the all-time high reached in 1979.

Important sources of data on these subjects are the United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. Historical Statistics of Hawaii, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the Statistical Abstract of the United States: 1986, Sections 25, 26 and 27.

Table 575.-- FOREST ACREAGE, BY ISLANDS: 1970-1985

Island	Forest and water reserve, 1985 1/ (acres)	Forest land, 1970 (acres)			Planted forest, June 30, 1985 (acres)	
		Total	Commercial 2/	Noncommercial 3/	Planted in preceding year	Total standing
State total	1,169,922	1,986,400	947,800	1,038,600	136	46,661
Hawaii	691,745	1,152,500	569,400	583,100	82	18,119
Maui	146,500	239,800	67,500	172,300	41	11,630
Kahoolawe	-	15,800	-	15,800	-	-
Lanai	6,150	43,900	4,500	39,400	-	512
Molokai	45,831	78,100	34,000	44,100	-	3,205
Oahu	117,726	205,300	126,500	78,800	-	7,036
Kauai	161,970	219,900	145,900	74,000	13	6,159
Niihau	-	31,100	-	31,100	-	-
Other islands ..	-	-	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.

2/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

3/ Unproductive or productive-reserved.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 576.-- COMMERCIAL TIMBERLAND OWNERSHIP AND VOLUME OF SAWTIMBER AND GROWING STOCK: 1977

Subject	Amount
Commercial timberland (1,000 acres)	948
Federally owned or managed	12
State or county	442
Private	494
Sawtimber net volume (million board feet)	1,047
Softwood only	17
Growing stock, net volume (million cubic feet)	202
Softwood only	4

Source: U. S. Forest Service study cited in Statistical Abstract of the United States: 1986, p. 673.

Table 577.-- FOREST AND BRUSHLAND FIRES, BY COUNTIES: 1984 AND 1985

[Years ended June 30]

Subject	State total	Counties			
		Hawaii	Maui	Honolulu	Kauai
Number of fires:					
1984	172	38	82	35	17
1985	218	75	98	32	13
Acres burned:					
1984	8,137	2,079	4,010	1,997	53
1985	3,657	280	3,073	195	109

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, data provided February 5, 1986.

Table 578.-- COMMERCIAL FISHING: 1962 TO 1985

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1962	940	13,800,761	13,173,259	2,870,702
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979	2,447	12,310,524	11,890,241	12,673,328
1980	2,525	10,418,964	9,946,065	10,497,456
1981	2,577	10,890,468	10,465,731	11,828,575
1982	2,525	9,178,789	8,824,348	10,754,276
1983	2,480	7,841,959	7,529,178	10,506,860
1984	2,940	9,819,800	9,344,200	13,556,184
1985	2,638	9,436,591	9,077,357	15,901,656

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests. Particularly for years since 1979, data may be incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches. Data for 1984 revised from Data Book 1985, table 556.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 579.-- COMMERCIAL FISH CATCH, BY SPECIES: 1985

[Year ended June 30, 1985]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch	9,443,289	9,081,015	15,908,174
Sea catch, all species 2/	9,409,931	9,048,661	15,845,908
Aku (Skipjack)	3,202,283	3,147,438	2,802,959
Ahi (Yellowfin)	1,963,593	1,884,108	3,016,194
Ahipalaha	311,890	309,464	231,229
Ahi (Bigeye)	166,326	165,999	381,295
Pacific blue marlin	412,548	364,334	285,446
Mahimahi	291,658	276,207	891,088
Ono	305,853	289,506	703,180
Hapuupuu	87,842	86,722	140,946
Opakapaka	357,531	345,930	1,063,194
Uku	97,431	94,453	251,436
Ehu	50,220	46,965	126,878
Onaga	177,807	172,799	631,377
Akule	266,730	241,448	343,604
Opelu	213,921	204,794	319,203
Shrimp (laevigatus)	101,914	101,802	207,067
Lobster	310,974	308,813	2,308,921
Slipper lobster	193,160	189,638	882,066
Pond catch, all species	33,358	32,354	62,265

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Including species not shown separately.

Source follows next table.

Table 580.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1985

[Year ended June 30, 1985]

Island	Pounds caught	Pounds sold	Value (dollars)
State total	9,443,289	9,081,015	15,908,174
Hawaii	2,476,840	2,377,538	3,536,934
Maui	805,488	762,215	1,039,521
Lanai	16,817	14,558	20,126
Molokai	40,028	33,826	80,931
Oahu	5,459,804	5,328,153	10,137,594
Kauai	644,312	564,725	1,093,067

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year -- July, 1984 through June, 1985.

Table 581.-- CHARTER FISHING PATRONS, FOR OAHU: 1983

Subject	Amount
Passenger trips by charter fishing fleet	16,700
Residence (percent): Hawaii	17
U.S. Mainland	61
Foreign	22
Average number of Hawaii charter fishing trips in past 5 years:	
By residents	3.5
By visitors	1.2
Average expenditure per passenger trip (dollars):	
By residents	89
By visitors	128
Average catch per full-day trip:	
Per patron	0.6
Per boat	2.5

Source: Karl C. Samples and Donald M. Schug, Charter Fishing Patrons in Hawaii: A Study of Their Demographics, Motivations, Expenditures and Fishing Values. Final Report (National Marine Fisheries Service, Honolulu Laboratory, Administrative Report H-85-8C, May 1985).

Table 582.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS: YEAR ENDED JUNE 30, 1985

Location	Species	Abundance (fish per acre)	Estimated standing crop (lb. per acre)
Marine Life Conservation Districts:			
Hanauma Bay, Oahu: Inshore	68	7,290	4,531
Offshore	75	3,415	733
Pupukea, Oahu	85	2,013	199
Molokini Shoals, Maui	90	3,150	1,016
Honolua-Mokuleia Bays, Maui	89	1,484	794
Leleiwi, Hawaii 1/	40	2,212	320
Olowalu, Maui 1/	31	1,492	191
Artificial reefs:			
Waianae, Oahu: Car body/concrete pipes	36	2,296	164
Maunalua Bay, Oahu	45	1,477	122
Shoreline Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu	(NA)	(NA)	366
Others:			
Barbers Point, Deep-Draft Harbor, Oahu	68	2,079	235
Puhi Bay, Hawaii	23	3,170	504
Makaiwa Bay, Hawaii	43	21,261	4,492

NA Not available.

1/ Candidate site for a Marine Life Conservation District.

Source follows next table.

Table 583.--MOST ABUNDANT FISH SPECIES AT HANAUMA BAY AND MOLOKINI SHOAL: YEAR ENDED JUNE 30, 1985

[Three leading species in each area, based on both individuals per acre and pounds per acre]

Location and species	Abundance		Standing crop	
	Rank	Fish per acre	Rank	Pounds per acre
Hanauma Bay, inshore:				
Manini	1	2,123.6	2	539.9
Surgeonfish, *Acanthurus nigrofuscus*	2	617.3	6	246.1
Hinalea lau wili	3	562.1	13	105.9
'Ama'ama	8	262.9	1	682.0
Pualu	16	104.6	3	410.3
Hanauma Bay, offshore:				
Kole	1	424.1	5	38.6
Surgeonfish, *A. nigrofuscus*	2	367.5	2	60.5
Hinalea lau wili	3	296.3	8	30.3
Humuhumu 'ele'ele	9	114.7	1	102.5
Mamo	5	239.6	3	41.4
Molokini Shoal:				
'O'ili lepa	1	865.2	9	45.4
Uhu	2	701.7	2	117.6
Hinalea lau wili	3	359.0	6	57.2
Nenue	7	74.0	1	148.1
Palani	16	17.0	3	111.6

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, *Job Progress Report, Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1984 to June 30, 1985*.

Table 584.-- MINERAL INDUSTRIES: 1958 TO 1982

[Excluding mines at manufactures]

Subject	1958	1963	1967	1972	1977	1982
Number of establishments 1/......	20	44	12	15	7	12
With 20 employees or more	8	4	3	5	2	4
All employees:						
Number (1,000)	.4	.3	.2	.3	.1	.2
Payroll (million dollars)	1.7	1.7	1.6	2.4	1.9	3.8
Production, development, and exploration workers:						
Number (1,000)	.4	.2	.2	.2	.1	.1
Hours (millions)	.7	.6	.4	.4	.2	.2
Wages (million dollars)	1.4	1.5	1.3	1.8	1.5	2.6
Value added in mining (million dollars)	4.6	4.9	5.0	9.0	8.1	9.7
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.0	2.1	2.3	4.1	2.9	5.9
Value of shipments and receipts (million dollars)	5.8	6.5	5.5	11.0	9.7	12.8
Capital expenditures (million dollars)	.7	.5	1.8	2.0	1.3	2.7

1/ After 1963, data for single-unit establishments without paid employees were excluded from the census of mineral industries. Eight of the 12 establishments reported, including all 4 with 20 employees or more, were in SIC 142, crushed and broken stone, including riprap.

Source: U.S. Bureau of the Census, 1982 Census of Mineral Industries, Geographic Area Series, Pacific States, MIC82-A-9 (April 1985), tables 1 and 2a.

Table 585.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1975 TO 1985

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979	481	6,869	63,904	30,423	28,969	4,512
1980	371	6,341	59,676	24,682	30,645	4,349
1981	312	6,036	58,727	23,831	31,407	3,489
1982	233	4,500	46,889	18,676	26,604	1,609
1983	222	5,532	52,411	21,314	29,706	1,391
1984 1/ ..	191	5,400	51,247	19,074	29,700	2,473
1985 2/ ..	205	5,600	58,555	20,450	34,503	3,602

1/ Revised from Data Book 1985, table 565.

2/ Preliminary.

Source: U.S. Department of the Interior, Bureau of Mines, "The Mineral Industry of Hawaii," Mineral Industry Surveys (annual).

Table 586.-- NONFUEL MINERAL PRODUCTION: 1984 AND 1985

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1984 1/	1985 2/	1984 1/	1985 2/
Total	(X)	(X)	51,247	58,555
Cement:				
Masonry	5	5	792	250
Portland	186	200	18,282	20,200
Sand and gravel (construction)	436	500	2,031	2,300
Stone:				
Crushed	5,400	5,600	29,700	34,500
Dimension	-	(Z)	-	3
Other nonmetals 3/	(X)	(X)	442	1,302

X Not applicable.

Z Less than 500 short tons.

1/ Revised from Data Book 1985, table 566.

2/ Preliminary.

3/ Gem stones, lime, and pumice.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1985," Mineral Industry Surveys (January 17, 1986).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing units and office buildings, sales, and residential financing. Related series are included in Sections 6 and 14.

There were 23,000 building permits issued in 1985, with an estimated value of $991 million. The total included $566 million for private residential construction and $323 million for private nonresidential structures. The value of government construction contracts awarded was $248 million. Construction put in place, as indicated by the contracting tax base, totaled $1.2 billion in 1984 and $1.4 billion in 1985. The value of land transfers in 1985 was $3.8 billion. Mortgage loans outstanding at the end of 1984 amounted to $7.6 billion. The July 1986 construction cost index for Honolulu (1967=100) was 369 for single-family residences and 385 for high-rise buildings.

The number of housing units in the State increased from 298,000 in 1976 to 371,000 in 1986. Owner occupied units numbered 122,000 in 1976 and 153,000 in 1986; the latter total included 36,000 on leased land. Condominium units, first authorized in 1961, numbered 98,000 at the end of 1982. Government-owned housing, mostly military and public, accounted for 26,000 units as of 1986. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1983, according to the Federal Home Loan Bank of Seattle, was only 1.3 percent. The average selling price of single-family homes on Oahu during 1985, based on Multiple Listing Service data, was $189,000; for condominium units it was $99,000. The median gross monthly rent for Oahu rose from $141 in 1970 to $413 in 1983, and the median value of owner occupied single-family units increased from $38,400 to $163,400.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, the 1976, 1979, and 1983 Annual Housing Surveys, postal vacancy surveys issued by the Federal Home Loan Bank of Seattle, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four county building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1986.

Table 587.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1975 TO 1985

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
1981	21,395	15,141	3,427	1,276	1,551
1982	16,974	11,743	2,581	1,214	1,436
1983	19,733	13,018	2,649	2,165	1,901
1984	20,582	14,404	2,834	1,437	1,907
1985	23,332	16,011	2,933	1,544	2,844
ESTIMATED VALUE ($1,000)					
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690
1981	898,428	550,254	136,617	67,844	143,713
1982	714,938	493,139	75,715	55,380	90,704
1983	767,305	410,763	95,979	142,859	117,704
1984	710,661	473,943	102,805	74,076	59,837
1985	990,879	619,689	132,735	59,522	178,933

Source: City and County of Honolulu Department of Buildings, *Summary of Building Permits* (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 588.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1984 AND 1985

[Thousands of dollars. Limited to private construction, including additions, alteration, and repairs]

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Residential:					
1984	382,028	237,708	64,370	39,065	40,886
1985	566,033	289,508	83,554	47,050	145,915
Nonresidential:					
1984	195,802	137,196	25,977	13,670	18,954
1985	323,256	225,323	37,885	16,838	32,718

Source: First Hawaiian Bank, Economic Indicators, Annual Supplement: Hawaii in 1985 (March-April 1986).

Table 589.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1975 TO 1985

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year 1/	Amount	Year 1/	Amount	Year 1/	Amount
1975 ..	1,161,913	1979 ..	1,325,460	1983 ..	1,353,405
1976 ..	1,012,952	1980 ..	1,569,658	1984 ..	1,242,929
1977 ..	983,618	1981 ..	1,613,764	1985 ..	1,367,733
1978 ..	1,060,898	1982 ..	1,294,871		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to income received in the 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 590.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY AND LOCATION OF CONSTRUCTION: 1981 TO 1985

[In thousands of dollars. By date of publication]

Awarding agency and location	1981	1982	1983	1984	1985
Total	427,534	392,767	277,877	411,753	248,499
Awarding agency:					
Federal agencies	176,136	139,588	84,723	129,969	74,841
State agencies	180,542	181,989	126,766	196,674	93,785
City and County of Honolulu	59,056	32,520	49,531	64,715	47,784
Other counties	11,799	38,670	16,856	20,394	32,090
Location of construction:					
City and County of Honolulu	349,034	298,638	218,995	315,510	177,650
County of Hawaii	48,202	23,009	20,364	22,981	17,872
County of Kauai	17,520	25,431	7,994	43,147	15,264
County of Maui	12,778	45,688	30,524	30,114	37,713

Source: Compiled by Hawaii State Department of Planning and Economic Development from Trade Publishing Company, BID Service Weekly.

Table 591.-- ESTIMATED VALUE PER HOUSING UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1980 TO 1985

[In dollars. Excludes building permits for additions, alterations and repair]

Type of structure	1980	1981	1982	1983	1984	1985
One-family	52,755	72,044	59,719	68,819	70,230	67,783
Two-family	72,768	69,071	85,511	62,808	53,230	58,337
Multi-family	65,660	70,710	44,727	50,552	37,892	46,089

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual tabular release).

Table 592.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1980 TO 1985

Category and year authorized	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1980	4,072	1,650	2,422	1,192	427	803
1981	2,551	768	1,783	1,032	353	398
1982	2,451	891	1,560	800	230	530
1983	3,387	1,562	1,825	880	398	547
1984	4,117	2,197	1,920	900	382	638
1985	4,663	2,313	2,350	979	387	984
New duplex units:						
1980	84	46	38	12	24	2
1981	164	42	122	18	38	66
1982	32	32	-	-	-	-
1983	138	60	78	58	6	14
1984	146	112	34	28	4	2
1985	208	112	96	64	-	32
New apartments:						
1980	5,163	1,854	3,309	727	769	1,813
1981	3,135	1,873	1,262	267	60	935
1982	3,038	2,553	485	245	118	122
1983	1,341	1,220	121	38	73	10
1984	1,134	942	192	153	35	4
1985	2,388	1,744	644	129	84	431
Units demolished:						
1980	766	665	101	63	6	32
1981	686	521	165	21	70	74
1982 1/.............	568	443	125	34	1	90
1983 2/	505	385	120	54	4	62
1984	528	429	99	50	5	44
1985	555	455	100	38	12	50

1/ Data exclude housing units destroyed by Hurricane Iwa on November 23-24, 1982 (127 in the City and County of Honolulu and 543 in the County of Kauai).

2/ Excludes 16 structures destroyed by volcanic activity in Hawaii County.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1986 (Statistical Report 191, July 18, 1986), table 5.

Table 593.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1972 TO 1982

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979	6,816	97	1,156	1,447	4,116	69,991
1980	10,441	74	3,263	2,553	4,551	80,432
1981	9,704	67	2,745	4,825	2,067	90,136
1982	7,795	201	1,298	3,544	2,752	97,931

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 7.

Table 594.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINUM UNITS: 1963 TO 1985

Subject	1963-1980	1981	1982	1983	1984	1985
Projects	207	27	12	12	32	18
Housing units	9,886	661	227	596	607	117

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and later years from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 595.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1981 TO 1985

Subject	1981	1982	1983	1984	1985
Projects	98	48	56	76	69
Residential units	3,172	1,500	3,024	2,662	1,477
Business or commercial units	1,213	472	410	149	269

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 596.-- TIME SHARE PROPERTIES AND UNITS, BY GEOGRAPHIC AREAS: AUGUST 27, 1986

[Time sharing refers to the use, occupancy, or possession of accommodations among various persons for less than 60 days in any year, for any occupant. Based on a total of 78 plans for the 1985-86 biennium]

Geographic area	Properties	Units
State total	69	2,736
Oahu	23	1,547
Waikiki	19	1,333
Rest of Oahu	4	214
Hawaii	5	62
Kauai	18	661
Maui	23	466

Source: State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Time Sharing Office, records.

Table 597.-- HONOLULU CONSTRUCTION COST INDEXES: 1980 TO 1986

[1967=100. Data are annual averages unless otherwise specified]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1980	283.2	263.8	307.8	290.1	270.5	307.1
1981	291.2	254.2	337.9	308.2	274.6	337.4
1982	304.7	250.6	372.9	330.3	281.4	372.7
1983	331.5	276.5	400.9	352.1	294.6	402.0
1984	348.2	281.4	432.5	367.2	294.5	430.2
1985	357.6	286.7	447.1	375.2	295.8	444.0
1986: July 2/	369.3	297.4	460.0	385.0	302.8	456.3

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Department, records.

Table 598.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1967 TO 1982

[Excludes establishments without payroll]

Subject	1982	1977	1972	1967
Number of establishments in business during year	1,861	1,732	1,570	1,220
Proprietors and working partners	396	530	590	718
All employees	18,665	20,792	25,012	17,171
Construction workers, average.......	13,953	15,784	20,163	14,430
Other employees, March	4,711	5,032	4,949	2,666
Payroll ($1,000,000)	409.7	323.4	282.6	133.6
All business receipts ($1,000,000) ...	1,853.3	1,435.2	1,085.5	543.3
Value added ($1,000,000)	855.2	636.2	477.5	230.3

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 599.-- SUMMARY STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS, BY INDUSTRY: 1982 AND 1977

[Includes establishments both with and without payroll]

SIC code	Industry	Number	Proprietors and working partners	All employees	All business receipts ($1,000)
	1982				
	Construction industries and subdividers and developers	4,259	2,799	18,665	2,032,087
15-17	Construction industries 1/	4,092	2,645	18,340	1,894,673
15	General building contractors and operative builders	1,020	564	6,290	944,585
16	Heavy construction, general contractors	133	67	1,768	179,221
17	Special trade contractors	2,939	2,014	10,282	770,867
6552	Subdividers and developers, n.e.c. 2/	162	154	323	137,412
	1977				
	Construction industries and subdividers and developers	3,170	2,020	20,792	1,508,865
15-17	Construction industries 1/	3,029	1,848	20,187	(D)
15	General building contractors and operative builders	843	459	7,944	779,765
16	Heavy construction, general contractors	114	50	2,319	(D)
17	Special trade contractors	2,072	1,340	9,924	469,029
6552	Subdividers and developers, n.e.c. 2/	145	172	607	(D)

D Withheld to avoid disclosing data for individual companies.

1/ For establishments without payroll, may also include data for construction establishments not classified to two-digit industry detail.

2/ For establishments without payroll, may also include data for an unknown number of cemetery subdividers and developers.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 1.

Table 600.-- DETAILED STATISTICS FOR CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1982 AND 1977

Item	1982	1977
Number of establishments in business during year ...	1,861	1,732
Proprietors and working partners	396	530
All employees	18,665	20,792
Construction workers:		
March	14,789	15,808
May	14,317	16,516
August	12,977	16,798
November	12,915	13,955
Average	13,953	15,784
Other employees:		
March	4,711	5,032
Construction worker hours (thousands):		
Total hours worked	21,817	(NA)
Payroll, all employees ($1,000)	409,679	323,402
Payroll, construction workers	297,885	240,359
Payroll, other employees	111,794	83,043
All business receipts ($1,000)	1,853,343	1,435,157
Total construction receipts	1,785,660	1,329,495
Receipts for work subcontracted in from others .	425,754	303,490
Land receipts	18,509	(NA)
Other business receipts	49,174	105,662
Net construction receipts ($1,000)	1,261,905	962,065
Value added ($1,000)	855,164	636,173
Selected payments ($1,000)	979,670	744,283
Materials, components, and supplies	418,874	361,304
Construction work subcontracted to others	523,754	367,430
Selected power, fuels, and lubricants	37,041	15,549
Ownership of construction projects:		
Total construction receipts ($1,000)	1,785,660	1,329,495
Government owned	499,385	439,607
Privately owned	1,286,274	889,888

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Construction Industries, Pacific States, CC82-A-9 (April 1985), Hawaii table 4.

Table 601.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1986

[Data include condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ..	216,774	68,422	20,802	106,821	14,439	6,290
1971 ..	228,749	72,086	21,732	113,531	15,089	6,311
1972 ..	238,770	75,939	24,565	117,111	14,959	6,196
1973 ..	250,742	78,878	26,776	123,934	15,071	6,083
1974 ..	266,828	82,494	30,333	131,368	16,373	6,260
1975 ..	284,120	85,264	30,543	145,276	16,386	6,651
1976 ..	298,339	88,284	33,730	152,578	17,225	6,522
1977 ..	306,989	89,980	34,549	158,223	17,493	6,744
1978 ..	315,513	92,989	35,869	161,728	18,653	6,274
1979 ..	324,261	96,273	36,540	165,045	19,022	7,381
1980 ..	334,235	100,478	36,986	170,963	19,437	6,371
1981 ..	342,873	104,677	37,413	174,753	19,427	6,603
1982 ..	348,980	106,147	37,372	179,579	19,392	6,490
1983 ..	353,414	108,761	35,586	183,249	19,304	6,514
1984 ..	359,107	111,767	35,545	185,657	19,294	6,844
1985 ..	364,436	114,548	35,681	187,905	19,280	7,022
1986 ..	371,003	117,090	35,811	191,930	19,264	6,908

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1986 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1986 (Statistical Report 191, July 18, 1986), table 1.

Table 602.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1986

[As of April 1. Data include condominium units occupied or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194
1983 ..	353,414	259,574	93,840	38,702	16,937	38,201
1984 ..	359,107	262,902	96,205	39,762	17,539	38,904
1985 ..	364,436	266,127	98,309	40,820	17,979	39,510
1986 ..	371,003	269,845	101,158	41,944	18,446	40,768

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1986 (Statistical Report 191, July 18, 1986), table 2.

Table 603.-- TENURE AND CONTROL OF HOUSING, BY COUNTIES: 1984 TO 1986

[As of April 1. Condominium units occupied or intended for occupancy by nonresidents are included in these estimates]

County	All housing units	Owner occupied units 1/		Renter occupied and vacant units		
		Land owned	Land leased	Private	Federal	State and County
1984						
State total ..	359,107	111,767	35,545	185,657	19,294	6,844
Honolulu	262,902	76,401	33,627	128,665	19,146	5,063
Hawaii	39,762	17,356	1,077	20,276	56	997
Kauai	17,539	6,412	167	10,568	64	328
Maui	38,904	11,598	674	26,148	28	456
1985						
State total ..	364,436	114,548	35,681	187,905	19,280	7,022
Honolulu	266,127	78,320	33,672	129,777	19,138	5,220
Hawaii	40,820	17,652	1,121	21,000	50	997
Kauai	17,979	6,617	224	10,747	64	327
Maui	39,510	11,959	664	26,381	28	478
1986						
State total ..	371,003	117,090	35,811	191,930	19,264	6,908
Honolulu	269,845	79,929	33,644	131,984	19,134	5,154
Hawaii	41,944	18,210	1,200	21,528	50	956
Kauai	18,446	6,809	248	10,995	65	329
Maui	40,768	12,142	719	27,423	15	469

1/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1986 (Statistical Report 191, July 18, 1986), table 4.

Table 604.-- RESIDENT AND NONRESIDENT HOUSING UNITS, BY COUNTIES: 1977 TO 1986

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
RESIDENT 1/						
1977	301,904	237,059	64,845	29,123	11,843	23,879
1978	308,444	241,573	66,871	30,008	12,062	24,801
1979	315,728	245,101	70,627	31,548	12,623	26,456
1980	322,598	247,152	75,446	33,594	13,395	28,457
1981	328,679	249,330	79,349	34,921	14,458	29,970
1982	334,580	251,280	83,300	36,254	15,402	31,644
1983	340,001	254,827	85,174	36,933	15,931	32,310
1984	341,505	256,015	85,490	37,860	15,941	31,689
1985	342,632	257,111	85,521	38,541	15,903	31,077
1986	348,004	260,007	87,997	39,892	15,872	32,233
NONRESIDENT 2/						
1977	5,085	512	4,573	330	590	3,653
1978	7,069	1,530	5,539	571	779	4,189
1979	8,533	2,364	6,169	735	987	4,447
1980	11,637	4,886	6,751	621	1,433	4,697
1981	14,194	5,639	8,555	1,259	1,856	5,440
1982	14,400	5,687	8,713	1,484	1,679	5,550
1983	13,413	4,747	8,666	1,769	1,006	5,891
1984	17,602	6,887	10,715	1,902	1,598	7,215
1985	21,804	9,016	12,788	2,279	2,076	8,433
1986	22,999	9,838	13,161	2,052	2,574	8,535

1/ Estimated as of April 1. Includes all housing units other than condominium units in rental pools and intended for transient occupancy.

2/ Condominium units in rental pools and intended for transient occupancy, based on February survey data from the Hawaii Visitors Bureau.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1986 (Statistical Report 191, July 18, 1986), table 3.

Table 605.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, 1979, AND 1983

Subject	1983	1979	1976	1970
All housing units	262,900	248,100	219,600	174,200
TENURE AND VACANCY STATUS				
All year-round housing units	262,800	247,900	219,300	174,100
Occupied	245,800	231,000	200,400	164,800
Owner occupied	120,600	117,200	96,100	74,200
Percent	49.0	50.7	47.9	45.0
Cooperatives and condominiums	21,500	20,700	13,900	(NA)
Renter occupied	125,200	113,800	104,300	90,600
Vacant year-round 1/	17,000	16,900	18,900	9,300
For sale only	1,200	900	5,100	1,100
Homeowner vacancy rate	0.9	0.8	5.0	1.5
For rent	6,200	7,300	6,600	4,500
Rental vacancy rate	4.7	6.0	6.0	4.7
Other vacant 1/	9,500	8,800	7,200	3,700
STRUCTURAL CHARACTERISTICS				
Units in structure: percent 1, detached	47.5	50.9	52.5	56.7
Year built: percent 1939 or earlier	9.8	11.1	12.6	15.7
Plumbing facilities: percent lacking some or all	0.8	1.5	1.6	3.0
Bathrooms: percent 2 or more	34.7	34.4	32.3	26.4
Kitchen facilities: percent incomplete or shared	2.1	2.1	2.7	2.9
Rooms: median	4.7	4.7	4.7	4.6
Bedrooms: percent 3 or more	50.4	51.8	53.5	50.9
Heating equipment: percent none	98.0	97.4	97.1	95.5
Air conditioning: percent none	82.0	81.3	81.8	86.7
Basement: percent none	89.3	91.4	92.1	(NA)
Public sewer: percent not linked	8.6	8.4	11.2	14.4
OCCUPANCY CHARACTERISTICS				
Persons per occupied unit	3.08	3.18	3.30	3.60
Percent 1.01 or more persons per room:				
Owner occupied	5.6	6.4	7.5	15.5
Renter occupied	10.9	11.2	12.1	22.0
Percent moved into unit past 12 months:				
Owner occupied	5.1	9.2	8.6	(NA)
Renter occupied	30.4	34.5	39.8	(NA)

Continued on next page.

Table 605.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, 1979 AND 1983 -- Con.

Subject	1983	1979	1976	1970
FINANCIAL CHARACTERISTICS				
Median income of families and primary individuals:1/				
Owner occupied	$38,000	$28,900	$23,600	$14,900
Renter occupied	$16,000	$12,800	$11,000	$8,000
Owner occupied 1-unit structures:				
Median value	$163,400	$125,600	$79,600	$38,400
Median value-income ratio	4.1	4.2	3.1	2.6
Median selected monthly housing costs --				
Units with a mortgage	$617	$474	$381	(NA)
Units with no mortgage	$157	$102	$81	(NA)
Renter occupied:				
Median gross rent	$413	$278	$234	$141
Nonsubsidized units	$425	$288	$241	(NA)
Gross rent as percent of income	31	26	26	22
Nonsubsidized	31	26	27	(NA)
Median contract rent	$372	$254	$216	$132

NA Not available.

1/ Includes units rented or sold but not occupied, units held for occasional use, and units occupied entirely by persons with usual place of residence elsewhere.

Source: U.S. Bureau of the Census, Annual Housing Survey: 1983, Honolulu, Hawaii, SMSA (Current Housing Reports, H-170-83-48, June 1985), Part A, tables A-1 and A-2.

Table 606.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and County of Honolulu	Other counties 1/		
			Hawaii	Kauai	Maui
Persons in occupied units	925,092	725,865	90,436	38,679	70,008
Per occupied unit	3.15	3.15	3.09	3.22	3.11
Total housing units	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number	332,213	250,866	33,954	14,544	32,728
Median rooms	4.4	4.3	4.7	4.6	3.9
One unit at address (percent)	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent)	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent)	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number	151,954	114,831	17,731	6,429	12,963
Percent of occ. units	51.7	49.9	60.6	53.5	57.6
Median value 2/ ($1,000)	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number	142,098	115,383	11,506	5,591	9,547
Median contract rent 3/ (dollars)	271	276	220	176	306
Vacant units, total 4/	38,161	20,652	4,717	2,524	10,218
For sale only	2,153	1,321	455	98	278
Homeowner vacancy rate	1.4	1.1	2.5	1.5	2.1
For rent	16,289	9,002	1,883	1,490	3,913
Rental vacancy rate	10.3	7.2	14.1	21.0	29.1
Rented or sold, awaiting occupancy	4,518	2,415	835	321	946
Held for occasional use	4,409	2,311	853	318	906
Other vacant	10,792	5,603	691	297	4,175
Condominium units, total	71,708	56,390	3,072	1,853	10,393
Owner-occupied	24,730	23,474	298	86	872
Renter-occupied	22,053	19,812	726	154	1,361
Vacant 4/	24,925	13,104	2,048	1,613	8,160

Footnotes and source on next page.

Table 606.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

1/ Kalawao County (121 housing units), although included in the State total, is not shown separately in this table.

2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was $98,600.

3/ Excluding no cash rent.

4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

Table 607.-- HOUSING UNITS, BY YEAR STRUCTURE WAS BUILT, FOR OAHU: 1940 TO 1983

[Thousands]

Year structure built	1983	1979	1976	1970	1960	1950	1940
Total 1/	262.8	247.9	219.3	174.1	125.8	83.2	53.5
April 1970 or later ..	86.0	67.8	50.0	-	-	-	-
1960 to March 1970 ...	78.6	78.4	72.6	72.6	-	-	-
1950 to 1959	47.3	47.8	44.7	45.6	51.7	-	-
1940 to 1949	25.0	26.4	24.4	24.8	28.0	30.5	-
1939 or earlier	25.8	27.4	27.6	27.4	46.1	51.8	53.5
1930 to 1939	(NA)	(NA)	(NA)	(NA)	18.7	16.8	(NA)
1929 or earlier	(NA)	(NA)	(NA)	(NA)	27.4	34.9	(NA)
Not reported	-	-	-	-	-	0.9	-

NA Not available.

1/ Year-round housing units, 1970-1983; all units, 1940-1960.

Source: U.S. Bureau of the Census and U.S. Department of Housing and Urban Development, Annual Housing Survey: 1983, Honolulu, HI, H-170-83-48 (June 1985), p. A-1. U.S. Bureau of the Census, U.S. Census of Housing: 1960, State and Small Areas, Hawaii, HC (1)-13 (1961), table 14; Census of Housing: 1950, Vol, I, Part 7 (1953), p. 52-13; 16th Census of the U.S.: 1940, Housing, General Characteristics, Hawaii (1943), table 2.

NEIGHBORHOOD STATISTICS PROGRAM AREAS

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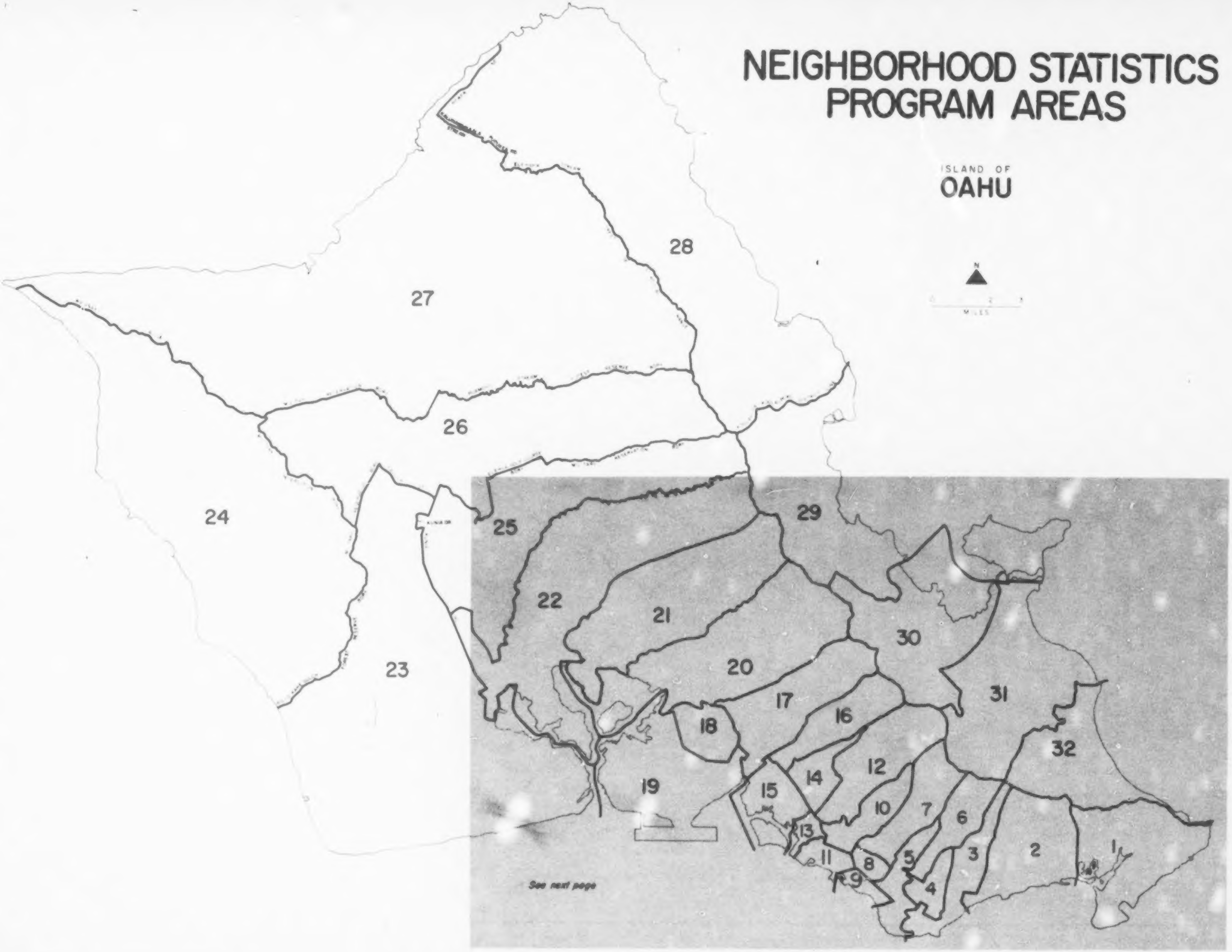
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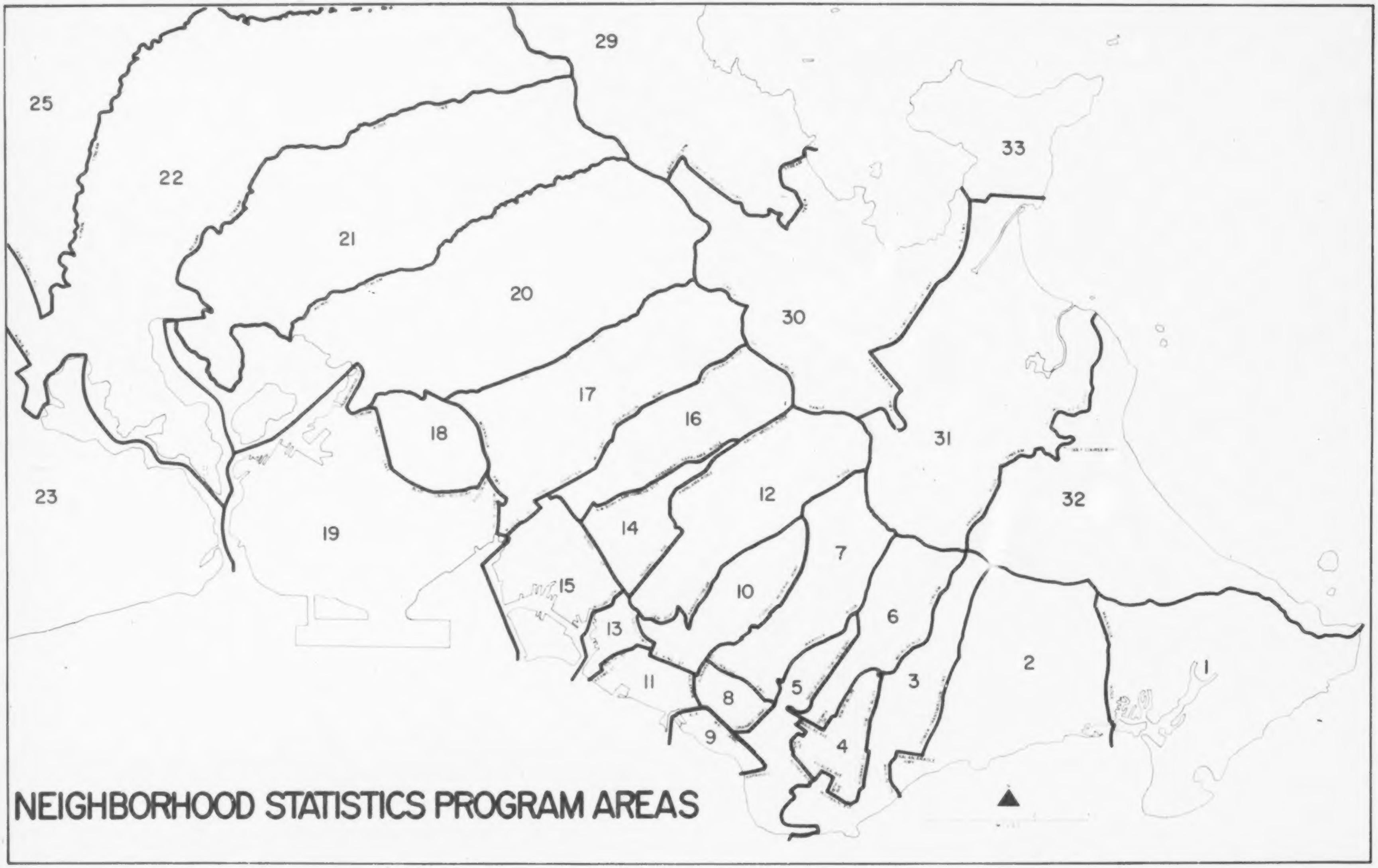
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NEIGHBORHOOD STATISTICS PROGRAM AREAS

Table 608.-- HOUSING CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

Neighborhood (see maps on pp. 559-560)	Year-round housing units		Occupied housing units		Owner occupied units: 1/ median value ($1,000)	Renter occupied units: median gross rent (dollars)
	Number	Percent in one-unit structures	Average household size	Percent owner occupied		
Oahu total	250,864	47.1	3.15	49.9	130.4	315
1 Hawaii Kai	7,921	75.5	3.37	83.2	170.5	500+
2 Kuliouou	4,517	87.1	3.27	85.1	180.0	475
3 Waialae-Kahala ...	4,104	72.8	2.95	79.1	200+	500+
4 Kaimuki	6,406	73.3	3.05	62.3	138.7	330
5 Diamond Head/ Kapahulu	8,442	41.7	2.66	50.5	131.8	311
6 Palolo	4,176	63.6	3.41	55.2	110.3	285
7 Manoa	6,821	58.1	2.89	59.6	178.1	352
8 McCully/Moiliili .	13,310	7.7	2.17	27.5	111.2	285
9 Waikiki	18,150	1.2	1.76	29.8	59.6	360
10 Makiki/Tantalus ..	14,937	9.2	2.01	34.3	194.7	315
11 Ala Moana/Kakaako	6,273	3.1	1.80	31.3	110.4	310
12 Nuuanu/Punchbowl .	5,555	58.4	2.98	54.9	131.8	312
13 Downtown	4,770	1.5	1.85	20.8	90.0	286
14 Liliha/Kapalama ..	6,565	55.1	3.16	54.2	127.3	276
15 Kalihi/Palama	11,152	22.3	3.54	24.7	97.5	226
16 Kalihi Valley	3,981	54.0	4.44	56.2	109.5	272
17 Moanalua	3,454	52.9	3.63	43.6	152.3	233
18 Aliamanu/Salt Lake	9,757	33.5	3.35	40.6	152.5	355
19 Airport	5,739	44.7	3.48	0.5	73.6	275
20 Aiea	9,236	52.5	3.28	58.4	129.3	399
21 Pearl City	11,362	80.2	3.78	76.4	127.2	429
22 Waipahu	8,519	60.4	4.03	54.3	118.7	346
23 Ewa	9,322	73.3	3.87	51.0	110.0	282
24 Waianae Coast	9,524	53.8	3.93	51.4	77.0	313
25 Mililani/Waipio ..	7,989	62.6	3.35	76.6	136.3	404
26 Wahiawa	10,677	44.6	3.40	26.6	96.7	266
27 North Shore	4,415	67.9	3.25	40.5	91.1	324
28 Koolauloa	3,462	60.6	3.77	35.6	82.8	275
29 Kahaluu	3,613	68.2	3.50	66.2	139.1	390
30 Kaneohe	10,033	75.1	3.59	72.0	122.5	393
31 Kailua	12,562	80.2	3.38	72.3	138.2	426
32 Waimanalo	2,241	78.8	4.26	63.5	68.5	255
33 Mokapu	1,889	38.0	3.55	0.1	...	238

1/ Limited to owner occupied one-family houses on less than 10 acres.

Source: Bureau of the Census, 1980 Census of Population and Housing, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983)

Table 609.-- AIR CONDITIONING IN HOUSING UNITS, BY ISLANDS: 1980

Air conditioning	State total	Oahu	Other islands
Year-round housing units	332,205	250,864	81,341
No air conditioning	271,934	198,012	73,922
Central system	19,340	16,204	3,136
1 or more individual room units	40,931	36,648	4,283

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), table 61.

Table 610.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1983 TO 1985

Subject	1983	1984	1985
Total units owned by HHA, June 30	5,822	5,742	1/ 5,735
Occupied	5,650	5,671	5,682
Population in units, June 30	18,171	18,257	18,237
Per occupied unit	3.2	3.2	3.2
Total assets, June 30 ($1,000)	407,540	430,087	691,000
Operating revenues of HHA, fiscal year: 2/			
Gross ($1,000)	12,550	11,455	12,608
Net ($1,000)	1,287	-977	620
Operating revenues per unit per month, fiscal year (dollars) 2/	220.80	166.24	205.04
Rent charged per unit per month, fiscal year (dollars) 2/	150.09	146.59	134.65

1/ Federal low-rent, 5,122; State-subsidized, 510; and other, 103.
2/ Federal projects only; revenue amounts include Federal subsidies.
Source: Hawaii Housing Authority, data provided January 23, 1986.

Table 611.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1986

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports. No survey was published for 1984 and 1985]

Year and month	Total units	Vacant units: Used and new: Number	Vacant units: Used and new: Percent	Vacant units: Used	Vacant units: New	Units under construction
1977: April 1/ ...	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087
1983: March	241,355	3,253	1.3	2,558	695	2,002
1986: May	250,500	5,750	2.3	4,593	1,157	877
TYPE OF UNIT: 1986						
Single-family units	141,938	1,489	1.0	1,166	323	438
Multi-family units	108,554	4,261	3.9	3,427	834	439
Mobile homes	8	-	0	0	...	...

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see Historical Statistics of Hawaii, p. 397.

Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual), as adjusted to 1982-1986 definitions.

Table 612.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1985

[Based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients]

Year	Units sampled			Percent vacant		
	State total	Oahu	Other islands	State average	Oahu	Other islands
1970 1/ ..	6,107	3,217	2,890	3.2	3.5	3.0
1971	5,370	2,493	2,877	3.6	3.2	5.1
1972	7,177	5,423	1,754	3.9	3.5	5.4
1973	6,735	5,456	1,279	3.1	2.6	5.0
1974	6,301	4,982	1,319	4.1	3.9	4.7
1975	6,632	5,360	1,272	5.6	5.2	6.9
1976 2/ ..	2,440	1,817	623	5.1	5.0	5.6
1977	6,899	4,526	2,373	5.9	6.1	5.1
1978	6,690	4,102	2,588	4.0	3.8	4.5
1979	5,936	3,519	2,417	3.2	2.8	4.4
1980	6,499	3,613	2,886	4.2	3.9	5.0
1981	6,174	3,195	2,979	4.8	4.4	5.8
1982	6,509	3,468	3,041	3.9	3.4	5.4
1983	6,139	3,147	2,992	3.8	3.1	5.8
1984 3/ ..	7,238	3,827	3,411	4.5	3.1	6.5
1985	7,485	3,872	3,613	4.8	4.7	5.1

1/ Neighbor Island data based on last 9 months of 1970.
2/ Survey suspended during the first 6 months of 1976.
3/ Sample excluded housing units on military bases, included in other years.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 613.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN, CHANGING RESIDENCE IN PAST YEAR: 1975 TO 1985

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

Year surveyed	Movers		Percent moving 1/	
	Total	Civilians 2/	Total	Civilians 2/
Persons 1 year old and over:				
1975	139,910	96,950	17.0	13.3
1976	139,922	110,100	16.6	14.4
1977	153,357	112,867	18.3	15.3
1978	148,048	110,451	15.5	14.7
1979	139,025	103,705	16.2	13.3
1980	122,691	89,981	13.5	11.1
1981	137,717	105,767	15.0	12.8
1982	147,684	115,685	15.8	13.8
1983	135,496	96,824	14.1	11.4
1984 3/	140,509	101,730	14.4	11.6
1985	139,891	98,506	14.2	11.4
Household heads:				
1975	46,900	32,633	18.9	14.8
1976	49,456	39,738	18.8	16.5
1977	53,482	40,102	19.8	16.6
1978	48,875	36,968	18.9	16.0
1979	45,908	34,069	17.2	14.0
1980	40,654	29,370	14.3	11.5
1981	48,264	36,780	16.5	14.0
1982	51,817	39,870	17.2	14.7
1983	45,692	32,155	14.7	11.7
1984 3/	45,798	34,637	15.3	12.8
1985	45,313	31,375	15.0	11.9

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

3/ Persons in households living on military bases were omitted from the 1984 survey, although included in other years. For purposes of this table, such persons were assumed to have the same response distribution as members of military households living in the civilian community.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 614.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1985

[Based on place of residence one year prior to survey date. Expanded from a sample of 5,885 households. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
State total	305,129	256,577	45,313	15.0	3,239
Military	38,771	24,470	13,938	36.3	363
Civilian	266,330	232,107	31,375	11.9	2,848
Status not reported	28	-	-	...	28
Oahu	225,950	190,689	33,190	14.8	2,071
Military	38,635	24,352	13,920	36.4	363
Civilian	187,315	166,337	19,271	10.4	1,707
Other islands	79,179	65,888	12,123	15.5	1,168
Hawaii	38,745	31,696	6,147	16.2	902
Kauai	14,101	12,204	1,897	13.5	-
Maui, Molokai, and Lanai	26,333	21,988	4,079	15.6	266

1/ Military status of household head at the time of the survey.

2/ Based on number reporting.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 615.-- BUILDING VACANCY RATES FOR COMPETITIVE OFFICE SPACE AND RETAIL SPACE, FOR HONOLULU, BY LOCATION: 1983 TO 1986

[Rates are percent of space reported vacant in survey]

Type of space and location	May 1983	Oct. 1983	May 1984	Oct. 1984	May 1985	Oct. 1985	May 1986
Competitive office:							
Downtown	8.4	20.4	17.2	16.1	15.9	11.5	11.4
Downtown to Waikiki	16.8	11.6	12.7	12.6	9.1	9.1	6.4
Waikiki	3.8	5.1	2.7	2.8	1.5	3.5	5.1
Other	13.8	14.0	21.9	18.2	19.1	22.6	18.0
Retail:							
Downtown	7.1	12.8	4.9	5.4	1.1	7.5	6.5
Downtown to Waikiki	11.9	12.2	27.7	4.3	4.4	5.0	13.0
Waikiki	17.9	17.2	23.8	6.6	11.2	15.4	9.1
Other	0.0	11.7	0.0	31.8	0.0	(NA)	1.8

NA Not available.

Source: Semi-annual survey by Hastings, Martin, Conboy, Braig & Associates, Ltd., cited in Building Owners & Managers Associaton, Hawaii, Newsletter, August 1986.

Table 616.-- REAL ESTATE LICENSES, ACTIVE AND INACTIVE, BY PLACE OF RESIDENCE: MARCH 1986

Residence	Active	Inactive	Residence	Active	Inactive
Total	14,323	7,849	Kauai	422	235
			Molokai	52	5
Oahu	11,122	5,253	Lanai	1	1
Hawaii	1,117	682	U.S. Mainland ...	278	1,154
Maui	1,328	487	Foreign	3	32

Source: Hawaii State Department of Commerce and Consumer Affairs, Hawaii Real Estate Commission Annual Report 1986, p. 5.

Table 617.-- HOUSING UNITS, BY OCCUPANCY, AND POPULATION IN HOUSING UNITS, BY NUMBER OF STORIES: 1980

Stories in structure	Year-round housing units			Population in housing units	
	Total	Occupied	Vacant or non-resident	Total	Per occupied housing unit
All structures 1/ ..	335,140	294,940	40,200	929,920	3.15
1 to 3	273,260	250,240	23,020	840,300	3.36
4 to 6	14,780	10,200	4,580	22,320	2.19
7 to 12	12,920	9,860	3,060	18,620	1.89
13 or more	34,180	24,640	9,540	48,680	1.98

1/ Excludes group quarters and population in group quarters.
Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Public Use Microdata Sample A - 5 Percent (Hawaii), special tabulation by DPED.

Table 618.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1980 TO 1985

Year	Single-family developments				Multi-family developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1980 ..	1,291	4,631	813	131,693	1,190	740	93,428
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310
1982 ..	1,232	5,037	308	137,267	1,198	134	114,669
1983 ..	1,173	4,380	772	135,357	740	500	85,064
1984 ..	1,261	4,613	1,176	140,700	720	504	81,373
1985 ..	1,263	5,360	1,139	147,093	773	316	93,737

1/ Four stories or under.
Source: Bank of Hawaii, Construction in Hawaii, 1986 (1986), p. 13.

Table 619.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1985

[Data include 1-family and condominium properties for all years and cooperative, commercial/industrial, business opportunities, income, and vacant properties through 1977 and from 1982]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/ .	9,926	5,714	57.6	82,076
1979-1980 1/ .	13,506	8,009	59.3	103,698
1980-1981 1/ .	14,090	5,553	39.4	124,897
1981 2/	13,799	3,735	27.1	144,227
1982	13,484	2,948	21.9	143,046
1983	13,556	4,868	35.9	142,914
1984 3/	13,258	4,732	35.7	141,888
1985	13,558	5,261	38.8	137,650

1/ Year ended February 28 or 29.

2/ Data cover period of March through December only.

3/ Data cover period of January 1 through December 3 only.

Source: Honolulu Board of Realtors, records.

Table 620.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, BY TYPE OF PROPERTY, FOR OAHU: 1984 AND 1985

Year and type of property	Number listed	Number sold	Percent sold	Average sales price (dollars)
1984 (JAN. 1-DEC. 3)				
Total	13,258	4,732	35.7	141,888
Residential 1/	4,511	1,951	43.2	187,270
Condominium 2/	7,654	2,542	33.2	101,448
Vacant land	428	101	23.6	143,480
Income	158	44	27.8	434,738
Commercial/industrial	98	19	19.4	327,901
Business opportunity	174	18	10.3	58,944
Cooperative	235	57	24.3	127,364
1985				
Total	13,558	5,261	38.8	137,650
Residential 1/	4,717	2,146	45.5	188,900
Condominium/cooperative	8,065	2,901	36.0	98,800
Vacant land	402	143	35.6	114,300
Income/business opportunity .	252	55	21.8	206,300
Commerical/industrial	122	16	13.1	280,400

1/ Single-family.
2/ Includes units in duplexes and townhouses.
Source: Honolulu Board of Realtors, records.

Table 621.-- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1983 TO 1986

[Years ended June 30]

Subject	1983	1984	1985	1986
Number of deeds filed and recorded	22,943	26,938	20,490	28,518
Approximate value of land conveyed ($1,000) ..	3,027,488	3,585,325	3,719,659	3,893,347

1/ Data include leases, agreement of sales assignments, subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 622.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1983 TO 1985

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1983	1984	1985
State total	3,272,167,005	3,764,562,638	3,778,077,861
Honolulu	2,333,881,897	2,549,352,254	2,581,678,154
Maui	423,712,237	610,384,923	562,563,099
Hawaii	359,695,067	467,051,984	359,835,183
Kauai	154,877,804	137,773,477	274,001,425

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 623.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1980 TO 1985

Year	Mortgages recorded			Foreclosures 1/ ($1,000)	Mortgage assignments ($1,000)	Agreements of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1980 ...	27,551	3,034,349	110,135	767	6,246	1,140,453
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662
1982 ...	18,773	2,478,992	132,051	22,674	3,143	639,263
1983 ...	29,060	3,528,800	121,431	24,443	(NA)	406,327
1984 ...	28,200	3,136,606	111,227	47,844	4,291	345,120
1985 ...	30,777	3,809,595	123,780	81,525	3,566	257,588

NA Not available.

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and Hawaii State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1986 (1986), p. 30.

Table 624.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1980 TO 1985

[Thousands of dollars. As of December 31]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1980	7,131,368	1,493,470	3,708,523	77	502,964	1,426,334
1981	7,498,041	1,585,846	3,949,941	77	603,720	1,458,457
1982	7,730,172	1,620,947	3,878,564	313	779,332	1,451,016
1983	7,553,924	1,714,698	3,803,628	116	589,574	1,445,908
1984	7,575,240	1,737,973	3,885,551	435	644,336	1,306,945
1985	(NA)	(NA)	(NA)	298	809,507	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Financial Institutions and Insurance Division.

Table 625.-- CHARACTERISTICS OF SINGLE-FAMILY HOME PURCHASES, FOR OAHU: SECOND QUARTER, 1983

[Based on a sample of conventional mortgage loans made by savings associations on single-family homes. The 1985 survey did not report Oahu separately]

Subject	Amount
Borrower characteristics:	
Median age (years)	42.0
1 or 2 person households (percent)	69.2
Married (percent)	76.9
First-time buyers (percent)	31.6
Median annual income of household (dollars) 1/	52,740
Second income 2/	71.0
Home characteristics:	
Median purchase price (dollars) 3/	105,000
Age: New (percent)	7.7
25 years old or more (percent)	7.7
Median size (square feet)	1,008
Condominium (percent)	53.8
Median monthly housing expense (dollars)	950
Median downpayment (dollars)	21,599
Housing expense exceeding 25 percent of household income (percent)	41.0

1/ The U.S. median was $35,987.

2/ Percent of households with two adults in which income contributed by a second earner accounted for 10 percent or more of total household income.

3/ The U.S. median was $65,000.

Source: United States League of Savings Institutions, Homeownership: Celebrating the American Dream (1984), pp. 61 and 95.

Table 626.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1983 AND 1984

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
1983				
Volume of FHA-insured mortgages:				
Number	125	218	1,771	270
Amount ($1,000)	12,260	20,218	170,967	27,432
Averages:				
Property value	(S)	(S)	$99,530	$105,603
Market price of site	(S)	(S)	$40,132	$48,881
Percent of value	(S)	(S)	40.8	46.4
Improved living area 2/ (square feet)	(S)	(S)	1,104	1,000
Age of structure 3/ (years)	...	(S)	7.6	6.6
Price of site per square foot	(S)	(S)	$6.44	$9.34
Lot size (square feet)	(S)	(S)	7,624	6,345
Mortgagor's total annual income 3/	(S)	(S)	$41,250	$33,900
Monthly cost of heating and utilities	(S)	(S)	$98.80	$99.29
Sale price per square foot 2/	(S)	(S)	$75.31	$78.83
Construction cost per square foot	(S)	(S)	...	...
1984				
Volume of FHA-insured mortgages:				
Number	242	185	927	161
Amount ($1,000)	26,471	20,643	93,755	17,971
Averages:				
Property value	$136,569	$137,519	$133,712	$126,149
Market price of site	$60,913	$61,580	$65,794	$57,250
Percent of value	45.0	45.0	48.9	45.3
Improved living area 2/ (square feet)	1,090	1,057	1,241	1,151
Age of structure 3/ (years)	...	...	15.1	10.7
Price of site per square foot	$16.38	$15.63	$10.18	$10.62
Lot size (square feet)	4,082	4,246	7,290	6,246
Mortgagor's total annual income 3/	(NA)	$40,625	(NA)	$34,000
Monthly cost of heating and utilities	$98.86	$97.00	$107.13	$100.70
Sale price per square foot 2/	$94.33	(NA)	$84.86	$79.44
Construction cost per square foot	$69.77	$71.75	...	...

NA Not available.
S Sample too small for reliable estimate.

Continued on next page.

Table 626.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1983 AND 1984 -- Con.

1/ Graduated payment mortgage program.
2/ Data based on 1-story structures.
3/ Median rather than arithmetic mean.

Source: U.S. Department of Housing and Urban Development, *FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203* (annual) and *FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program* (annual).

Table 627.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1985

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total	3,954	3,307	120	96	325	1	2	103
Elevators	3,378	2,802	91	89	299	-	1	96
Under 9 stories:								
Hydro	679	478	29	27	97	-	1	47
Roped	1,187	902	53	62	133	-	-	37
9 to 18 stories	905	820	9	-	64	-	-	12
19 to 28 stories	360	355	-	-	5	-	-	-
29 to 38 stories	174	174	-	-	-	-	-	-
39 stories or more	73	73	-	-	-	-	-	-
Escalators and moving walks	266	259	6	-	1	-	-	-
Inclined lifts	10	2	3	1	2	-	1	1
Man lifts	11	10	-	1	-	-	-	-
Dumbwaiters	279	232	20	2	18	1	-	6
Handicapped lift	1	1	-	-	-	-	-	-
Chair lift	1	1	-	-	-	-	-	-
Private industrial elevator	7	-	-	2	5	-	-	-
Material lift	1	-	-	1	-	-	-	-

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, data provided January 20, 1986.

Table 628.-- TALLEST STRUCTURES, BY ISLANDS: 1986

Island and structure	Location	Year completed	Height	
			Stories	Feet
BUILDINGS 1/				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Royal Lahaina Hotel	Kaanapali	1970	12	132
Oahu:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Kauai:				
Kauai Surf Hotel	Lihue	1959	10	107
OTHER STRUCTURES				
Hawaii:				
Coast Guard Loran Station	Upolu Point	1958	...	625
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
Oahu:				
VLF Antenna	Lualualei	1972	...	1,503
Kauai:				
Communication Engineers Tower	Mana	1964	...	400
Kure Atoll:				
Loran Transmitting Tower .	Kure Atoll	1962	...	625

1/ Shown separately for the tallest in feet and also (if different) for the tallest in number of stories.

2/ Measured to top of elevator machine room; otherwise, 390 feet.

Source: Hawaii County Dept. of Research and Development, June 19, 1986; Maui County Dept. of Public Works, May 10, 1986; City and County of Honolulu Building Dept., April 24, 1986; Kauai County Dept. of Public Works, July 7, 1986; 14th Coast Guard District, June 24, 1986.

Table 629.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND HOTELS: 1985-1986

Facility type and name	Seating capacity
Stadiums and sports arenas:	
Aloha Stadium	50,000
Aiea High School Stadium	9,600
Neal Blaisdell Center Arena 1/	8,731
Leilehua High School Stadium	6,500
Waipahu High School Stadium	6,500
Brigham Young University-Hawaii Activity Center	5,000
University of Hawaii Baseball Stadium	4,312
Theaters and auditoriums:	
Neal Blaisdell Center Arena 2/, 3/	8,780
Neal Blaisdell Center Exhibition Hall 4/	5,000
Francis Wong Stadium (Hoolulu Park Complex Multi-purpose Pavilion) 3/	4,500
Lahaina Civic Center Convention Hall 3/	4,050
Andrews Amphitheater	4,000
Hilo Civic Auditorium 3/	3,550
Waikiki Shell 2/, 5/	3,257
Neal Blaisdell Center Concert Hall	2,158
Waikiki 3 Theater 2/	1,262
Hilton Hawaiian Village Dome 2/	1,120
Kauai War Memorial Concert Theater	1,100
Waikiki 1 and 2 Theaters (each) 2/	982
Kapiolani Theater	760
Cinerama Theater	646
Kennedy Theater	600
Ruger Theater	507
Richard T. Mamiya Theatre	500
Churches:	
Kawaiahao Church	1,300
Central Union Church (Sanctuary)	800
St. Theresa Co-Cathedral	800
St. Andrew's Cathedral	750
St. Anthony	750
Cathedral of Our Lady of Peace	700
St. Augustine	700
Star of the Sea	700

Continued on next page.

Table 629.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND HOTELS: 1985-1986 -- Con.

Facility type and name	Seating capacity
Hotels (capacity in reception or theater configuration, whichever is greater):	
Hilton Hawaiian Village Coral Ballroom	5,000
Westin Ilikai Pacific Ballroom	5,000
Sheraton Waikiki Hawaii Ballroom	3,700
Hilton Hawaiian Village Tapa Room	3,400
Royal Hawaiian Monarch Room and Lanai	3,000
Westin Kauai Ballroom	2,143
Hilton Hawaiian Village Tapestry Lounge	2,000
Pacific Beach Grand Ballroom	2,000
Kauai Hilton Jasmine Ballroom	1,775
Maui Marriott Resort Kaanapali Ballroom	1,700
Ala Moana Americana Hibiscus Ballroom	1,500
Hilo Hawaiian Hotel Banquet room	1,500
Hyatt Regency Maui Grand Ballroom	1,500
Turtle Bay Hilton & Country Club Kahuku Meeting Rooms	1,300
Kona Lagoon Polynesian Longhouse	1,300
Outrigger Prince Kuhio Grand Ballroom	1,200
Hilton Hawaiian Village Iolani Suite	1,200
Hyatt Regency Waikiki Regency Ballroom	1,200
Waiohai Resort Plantation Ballroom	1,200
Westin Maui Ballroom	1,102
Hawaiian Regent Hawaiian Ballroom	1,000
Ala Moana Americana Garden Lanai	1,000
Princess Kaiulani Ainahau Ballroom	1,000

1/ Capacity in boxing configuration.
2/ Revised from Data Book 1985, table 609.
3/ Capacity in concert configuration.
4/ Capacity in reception configuration.
5/ Includes 1,299 temporary seating.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; Honolulu Building Department; officials of the facilities listed; and Hawaii Business Publishing Corporation, Discover Hawaii Meeting Planner 1986.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning. Additional information on manufacturing workers appears in Sections 12 and 15.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 966 in 1982. The value added by manufacture rose from $326 million in 1967 to $786 million in 1977 and $1,120 million in 1982, then fell to $1,046 million in 1983. More than three-fourths of all manufacturing activity in the State in 1982 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for 44 percent of the value added by manufacture in 1983. In 1985, the general excise and use tax base was $357 million for sugar processing, $116 million for pineapple canning, and $528 million for all other manufacturing. There were two pineapple canneries and 12 sugar mills in Hawaii in 1985. The production of canned pineapple fruit and juices in 1981 (the most recent year available) was 18 million actual cases, well below the levels of earlier years. Sugar production in 1985 amounted to 1,012,000 short tons. The value of sugar production (including commercial molasses) was $341 million, compared with the record of $677 million set in 1974. Important manufactures other than food processing include apparel ($56 million in value added in 1982), printing and publishing (more than $27 million), stone, clay, and glass products ($39 million), and chemicals and allied products ($25 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1982, the Annual Survey of Manufactures, publications of the Hawaii State Department of Agriculture and Department of Taxation, and reports and records of the Hawaiian Sugar Planters' Association. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1986.

Table 630.-- STATISTICAL SUMMARY OF MANUFACTURES: 1967 TO 1984

[For intercensal data, 1971-1981, see Data Book 1983, table 564]

Subject	1984	1983	1982	1977	1972	1967
All establishments 1/ (number)	(NA)	(NA)	966	949	773	697
With 20 employees or more	(NA)	(NA)	237	231	238	215
All employees:						
Number (1,000)	22.5	22.6	23.6	25.0	24.8	25.4
Payroll (million dollars)	383.3	375.9	360.3	276.8	191.1	139.6
Production workers:						
Number (1,000)	15.6	14.9	16.0	17.4	17.7	19.0
Hours (millions)	29.3	29.0	29.9	31.3	33.1	35.9
Wages (million dollars)	223.3	223.8	217.5	160.5	113.7	86.9
Value added by manufacture 2/ (million dollars)	1,046.4	1,045.9	1,119.6	785.5	410.0	326.2
Cost of materials 3/ (million dollars)	2,330.4	2,382.2	2,357.5	1,176.1	548.3	399.6
Value of shipments 3/ (million dollars)	3,409.6	3,414.5	3,443.0	1,974.0	955.6	723.4
New capital expenditures (million dollars)	69.4	60.6	89.4	44.4	46.7	26.0

NA Not available.

1/ Includes establishments with payroll at any time during the year.

2/ Data for 1982-1984 not directly comparable to data for earlier years; see source for discussion.

3/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1984 Annual Survey of Manufactures, Geographic Area Statistics, M84(AS)-6 (September 1986), table 1.

Table 631.-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES: 1982

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments 1/ (number) ...	967	780	99	25	63
With 20 employees or more	237	200	18	7	12
All employees:					
Number (1,000)	23.6	17.9	2.4	0.7	2.6
Payroll (million dollars)	360.4	279.4	37.9	12.1	30.9
Production workers:					
Number (1,000)	16.0	11.9	1.9	0.5	1.7
Hours (millions)	29.9	21.6	3.9	1.0	3.4
Wages (million dollars)	217.5	158.3	29.0	8.3	21.8
Value added by manufacture (million dollars)	1,119.6	901.5	100.6	26.6	90.8
Cost of materials 2/ (million dollars)	2,357.5	2,078.5	130.1	58.3	90.7
Value of shipments 2/ (million dollars)	3,443.0	2,947.3	229.6	84.9	181.1
New capital expenditures (million dollars)	89.4	58.4	7.5	5.9	17.6

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 4.

Table 632.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1982

SIC code	Industry group and industry	Number of establishments	Number of employees (1,000)	Payroll (million dollars)	Value added by manufacture (million dollars)	Value of shipments (million dollars)
	All industries	967	23.6	360.4	1,119.6	3,443.0
20	Food and kindred products ...	221	11.1	161.2	398.6	1,079.5
202	Dairy products	10	.5	10.4	20.3	68.8
203	Preserved fruits and vegetables	34	3.3	36.1	96.7	234.0
2033	Canned fruits and vegetables	9	3.1	33.6	89.3	214.5
205	Bakery products	33	1.2	18.9	41.6	70.7
206	Sugar and confectionery products	29	3.6	61.6	159.7	428.1
2061	Raw cane sugar	13	2.9	52.9	136.1	350.3
208	Beverages	12	.5	8.6	26.9	72.3
23	Apparel and other textile products	145	3.4	31.1	56.5	106.6
232	Men's and boy's furnishings	22	.8	7.5	13.1	22.9
233	Women's and misses' outerwear	78	1.7	15.7	26.3	44.6
2335	Women's and misses' dresses	62	1.4	12.8	21.1	37.3
27	Printing and publishing	177	2.5	(D)	(D)	(D)
275	Commercial printing	93	.9	14.3	27.0	44.5
28	Chemicals and allied products	21	.3	6.3	24.8	64.4
32	Stone, clay, and glass products	53	.9	19.2	38.9	80.0
327	Concrete, gypsum, and plaster products	29	.7	16.0	30.4	64.1
34	Fabricated metal products ...	42	.7	11.8	22.9	76.4

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Hawaii, MC82-A-12 (April 1985), table 5.

Table 633.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1983

Subject	All manufactures	Food and kindred products (SIC 20)			Apparel, other textile products (SIC 23)
		Total	Preserved fruits, vegetables (SIC 203)	Sugar, confect. products (SIC 206)	
All employees:					
Number (1,000)	22.6	10.8	3.4	3.7	3.1
Payroll (million dollars) .	375.9	174.9	36.9	63.5	31.3
Production workers:					
Number (1,000)	14.9	6.9	2.7	2.9	2.5
Hours (millions)	29.0	13.7	4.3	5.8	4.9
Wages (million dollars) ...	223.8	105.9	29.6	43.6	23.1
Value added by manufacture (million dollars)	1,045.9	460.0	100.2	230.5	92.3
Cost of materials (million dollars)	2,382.2	717.1	136.5	257.1	49.1
Value of shipments (million dollars)	3,414.5	1,192.5	236.7	504.2	110.1
New capital expenditures (million dollars)	60.6	39.9	2.6	20.9	1.1
End-of-year inventories (million dollars)	407.2	159.0	71.4	38.0	15.8

Source: U.S. Bureau of the Census, 1983 Annual Survey of Manufactures, Geographic Area Statistics, M83 (AS)-6 (February 1986), table 2.

Table 634.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1984

Subject	All manufactures	Food and kindred products (SIC 20)	Apparel and other textile products (SIC 23)	Stone, clay, and glass products (SIC 32)	Fabricated metal products (SIC 34)
All employees:					
Number (1,000)	22.5	10.8	3.8	.7	.7
Payroll (million dollars)	383.3	179.2	34.6	13.5	12.0
Production workers:					
Number (1,000)	15.6	7.4	3.2	.5	.5
Hours (millions)	29.3	14.2	6.1	.9	.9
Wages (million dollars) ..	223.3	107.5	26.9	9.3	9.1
Value added by manufacture (million dollars)	1,046.4	571.4	60.3	28.3	24.2
Cost of materials (million dollars)	2,330.4	773.9	57.8	34.2	63.3
Value of shipments (million dollars)	3,409.6	1,345.5	119.2	62.9	83.1
New capital expenditures (million dollars)	69.4	40.6	.9	.8	(D)
End-of-year inventories (million dollars)	367.2	134.8	22.3	13.5	17.7

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1984 Annual Survey of Manufactures, Geographic Area Statistics, M84 (AS)-6 (September 1986), table 2.

Table 635.-- PLANT CAPACITY UTILIZATION RATES: FOURTH QUARTERS, 1981 TO 1984

[Data based on limited samples and subject to high sampling variability. Comparability of 1984 rates with earlier figures is further affected by the use of a new survey sample in that year. Considerable caution is thus urged in making any year-to-year comparisons, and particularly between 1983 and 1984]

Type of rate	Fourth quarter estimates			
	1981	1982	1983	1984
Preferred rate 1/	80	80	83	84
Practical rate 2/	73	72	73	81

1/ The preferred level of operations is defined as a level, normally between actual operations and practical capacity, which the manufacturer would prefer not to exceed due to costs or other considerations. In this table, the preferred utilization rate represents the ratio of actual to preferred level of operations.

2/ Practical capacity is broadly defined as the greatest output the plant could achieve within the framework of a realisic work pattern. The practical capacity utilization rate is the ratio of actual operations to the practical capacity level.

Source: U.S. Bureau of the Census, "Survey of Plant Capacity, 1982," Current Industrial Reports, MQ-C19(82)-1, November 1983, p. 19, and unpublished estimates for 1983 and 1984.

Table 636.-- WATER INTAKE IN MANUFACTURING: 1983

[Data limited to manufacturing establishments reporting water intake of 20 million gallons or more during 1982. Such establishments accounted for 3 percent of all manufacturing establishments, 99 percent of all water intake by manufacturing establishments, 31 percent of all manufacturing employment, and 55 percent of value added by manufacture]

Subject	All major groups	Food and kindred products	Other mfg. groups
Number of establishments	31	23	8
Gross water used (billion gallons)	149.0	(D)	(D)
Water intake	68.7	66.1	2.6
Water recirculated and reused	80.2	(D)	(D)
Water discharged (billion gallons)	49.9	48.2	1.7
Untreated	36.7	35.6	1.1
Treated	13.2	12.6	0.6

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Water Use in Manufacturing, MC82-S-6 (March 1986), tables 1b, 2b, and 2c.

Table 637.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1985

Subject	State total	Hawaii	Maui	Oahu	Kauai	Other islands
Number:						
Developed	33	6	4	21	2	-
Proposed	12	2	2	7	1	-
Acres:						
Developed	3,066	618	195	2,207	46	-
Proposed	1,873	1,035	330	492	16	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1985 (1985).

Table 638.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1975 TO 1985

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Sugar processing	Pineapple canning 2/	Manufacturing 3/
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 4/ ...	862,412	284,000	111,942	466,470
1978 4/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980	1,349,149	527,379	195,766	626,004
1981	1,218,516	415,442	172,342	630,732
1982	1,033,845	317,880	185,367	530,598
1983	1,130,369	435,579	182,967	511,823
1984	1,132,078	414,211	198,266	519,601
1985	1,000,578	357,151	115,754	527,673

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Decline after 1984 reflects in part the exemption of exported pineapple produced by a major company from the general excise tax, effective August 1, 1985, when it was granted foreign trade subzone status.

3/ Excludes sugar processing, pineapple canning, and petroleum refining.

4/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 639.-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1940 TO 1985

Year	Pineapple (end of canning season)		Sugar (December 31)	
	Companies 1/	Canneries	Companies 2/	Mills
1940	8	8	38	34
1945	7	7	36	32
1950	9	8	28	26
1955	10	8	28	26
1960	8	9	27	27
1965	6	6	25	27
1970	4	4	23	26
1975	3	3	16	17
1980	3	3	15	14
1983	3	2	15	13
1984	3	2	14	12
1985	3	2	14	12
ISLANDS: 1985				
Hawaii	-	-	4	4
Maui	1	1	3	2
Oahu	2	1	2	2
Kauai	-	-	5	4

1/ 1983 and 1984 revised from Data Book 1985, table 618. Data include Del Monte, which now sells only fresh pineapple.

2/ Excludes cooperatives.

Source: Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 640.-- EMPLOYMENT IN THE PINEAPPLE AND SUGAR INDUSTRIES: ANNUAL AVERAGES, 1984 AND 1985

Year	Pineapple			Sugar		
	Total	Field	Cannery	Total	Field	Mill
1984	4,250	2,100	2,150	8,000	4,300	3,700
1985	3,850	1,950	1,900	7,550	4,100	3,450

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book, as revised April 1986.

Table 641.-- HAWAIIAN PINEAPPLE PRODUCTION: 1977-1978 TO 1981

[In thousands. Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980, and 1981. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981]

Year	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases 1/	Actual cases	Standard cases 2/	Equivalent 6/10 cases	Standard cases 2/
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215
1981	9,759	6,830	7,997	6,320	219	200

1/ 24 No. 2 1/2 can, 45-lb. cases.
2/ 24 No. 2 1/2 can, 42 1/2-lb. cases.
Source: The Pineapple Growers Association of Hawaii, records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 642.-- SUGAR AND MOLASSES PRODUCTION: 1968 TO 1985

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area 1/		96° raw value	Equivalent refined	
1968 ...	242,476	113,525	11,279,920	1,232,182	1,151,597	368,050
1969 ...	242,216	113,232	10,839,272	1,182,414	1,105,060	340,330
1970 ...	238,997	113,816	10,457,377	1,162,071	1,086,000	322,480
1971 ...	232,278	115,810	10,685,019	1,229,976	1,149,510	330,227
1972 ...	229,611	108,456	9,929,068	1,118,883	1,045,708	307,543
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,843
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981 ...	216,099	97,573	8,831,477	1,047,541	979,032	311,719
1982 ...	204,749	89,261	8,807,998	982,913	918,630	287,190
1983 ...	194,258	92,808	8,926,358	1,044,204	975,913	303,254
1984 ...	188,396	89,541	8,453,721	1,061,814	992,371	314,202
1985 ...	187,858	83,029	7,916,459	1,012,249	946,048	271,645

1/ The average growth of a crop is 22 to 26 months. Only a portion of the total acreage in cane is harvested each year.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual).

Table 643.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1968 TO 1985

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Cash wages	Employee benefits
1968 ...	7.52	9,481	2,282,654	-	21.62	8.40
1969 ...	7.75	9,213	2,066,244	5	23.26	9.76
1970 ...	8.08	8,908	2,139,183	-	24.24	10.00
1971 ...	8.52	8,610	2,077,011	-	26.08	10.27
1972 ...	9.10	8,127	1,934,563	-	29.09	11.23
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68
1981 ...	19.74	7,282	1,806,020	-	61.51	27.71
1982 ...	19.94	6,816	1,519,732	-	65.11	30.83
1983 ...	22.04	6,543	1,565,928	-	66.80	32.00
1984 ...	21.74	6,319	1,467,127	-	68.88	34.71
1985 ...	20.39	5,751	1,323,525	-	68.72	35.40

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices. New York spot price "nearby futures" used beginning June 1985.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised and updated.

Table 644.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1970 TO 1985

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar		
	Canned fruit and juices 1/	Fresh market sales 2/	Value of production		Government sugar support payments
			Raw sugar 96°	Commercial molasses	
1970 ..	135.0	3.60	180.7	7.1	10.3
1971 ..	137.7	3.70	196.3	6.7	10.7
1972 ..	140.5	4.90	176.6	8.1	9.7
1973 ..	135.0	7.40	203.8	18.4	9.5
1974 ..	118.2	8.85	659.2	17.4	8.6
1975 ..	126.6	10.08	354.6	11.5	-
1976 ..	130.0	14.49	245.5	11.5	-
1977 ..	140.0	21.58	219.1	7.7	48.7
1978 ..	133.4	29.45	269.5	15.7	8.1
1979 ..	176.3	30.08	322.2	23.5	-
1980 ..	192.2	34.34	566.4	27.7	-
1981 ..	172.0	45.63	314.2	13.7	-
1982 ..	156.1	49.92	343.9	7.6	-
1983 ..	171.6	47.40	396.5	13.7	-
1984 ..	202.0	47.60	382.9	10.1	-
1985 ..	171.7	50.84	331.9	8.9	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services. Related data are included in Sections 7, 12 and 15.

These activities have undergone rapid growth in recent decades, in part because of higher price levels. Retail sales increased from $751 million in 1963 to $1.9 billion in 1972 and $5.2 billion in 1982. Wholesale sales rose from $1.6 billion in 1972 to $4.1 billion in 1982. Hotels, amusements, and other services reported receipts exceeding $2.6 billion in 1982, compared with $665 million in 1972. General excise and use tax base data for more recent years indicate continued increases; between 1982 and 1985, the retailing tax base rose 24 percent, the wholesaling base by 28 percent, and the base for services by 30 percent. Major retail concentrations include Waikiki, Ala Moana Center, Pearlridge Center, and downtown Honolulu. In addition to civilian retail outlets, there are many commissaries, exchanges, clubs, package stores, gasoline stations and food services maintained by the armed forces; these facilities had sales of $438 million in 1985.

Growth has been especially rapid for hotels and related facilities. The number of units in the State rose from 6,800 in 1959 to 37,000 in 1973 and 66,000 in 1986. There were 523 hotels, motels and apartment-hotels in Hawaii on the latter date, including 316 on the Neighbor Islands. One-third of all transient units were in condominium structures. Occupancy rates averaged 80.8 percent in Waikiki and 69.7 percent on the Neighbor Islands during 1985. The average daily room rate was $69 in 1985. The hotel payroll in 1985 totaled $394 million, compared with $245 million five years earlier.

Sixty-six feature motion pictures and television specials and series were filmed in Hawaii in 1985, accounting for local expenditures of $41 million.

The major source of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently conducted for 1982. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Film Industry Branch of the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1986, Section 30, presents similar data for other states and the nation as a whole.

Table 645.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1958 TO 1982

[Excludes establishments on military bases]

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1958 (1963 def.)	4,760	516,177	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977 (1977 def.)	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163
1977 (1982 def.)	7,477	3,296,714	1,569	2,571,489	(1/)	(1/)
1982	8,917	5,193,406	1,737	4,084,369	(1/)	(1/)

1/ Comparable data not available. Service establishments with payroll and subject to Federal income tax numbered 6,124 in 1982, with receipts of $2,659,651,000.

Source: Robert C. Schmitt, *Historical Statistics of Hawaii* (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census *1977 Census of Retail Trade*, RC77-A-12, table 2; *1977 Census of Wholesale Trade*, WC77-A-12 (Revised), table 2; *1977 Census of Service Industries*, SC77-A-12, table 2; *1982 Census of Retail Trade*, RC82-A-12, table 2; *1982 Census of Wholesale Trade*, WC82-A-12, table 2; *1982 Census of Service Industries*, SC82-A-12, table 1a.

Table 646.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1975 TO 1985

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980	6,109,628	1,743,003	121,562	2,986,877
1981	6,700,750	1,809,913	129,501	3,528,763
1982	6,874,963	1,905,068	130,280	3,207,768
1983	7,438,193	2,134,524	144,095	3,694,220
1984	8,111,893	2,368,415	153,723	4,025,324
1985	8,499,254	2,481,669	154,830	4,095,220

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 647.-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

[Excludes establishments on military bases]

Subject	1977 1/	1982		
		State total	Oahu	Neighbor islands
All establishments:				
Number	7,477	8,917	6,347	2,570
Sales ($1,000)	3,296,714	5,193,406	3,962,598	1,230,808
Unincorporated businesses (number):				
Individual proprietorships	3,120	3,656	2,591	1,065
Partnerships	516	556	392	164
Establishments with payroll:				
Number	5,273	6,139	4,318	1,821
Sales ($1,000)	3,225,311	5,101,671	3,898,767	1,202,904
Annual payroll ($1,000)	458,782	696,438	539,170	157,268
First quarter payroll ($1,000)	111,143	164,950	127,260	37,690
Paid employees for pay period including March 12 (number)	72,098	81,979	63,620	18,359

1/ The 1977 data on total establishments, total sales, sales of establishments with payroll, and annual payroll have been revised for comparability with the 1982 data; the 1977 data on unincorporated businesses, number of establishments with payroll, first quarter payroll, and paid employees are unrevised. Unrevised figures for those data subsequently revised are as follows: total establishments, 7,388; total sales, $3,294,118,000; sales of establishments with payroll, $3,222,715,000; annual payroll, $460,322,000.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, Hawaii, RC77-A-12 (June 1979), table 1; 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 648.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982

[Excludes establishments on military bases]

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
State total	[illegible],917	5,193,406	6,139	5,101,671
Hawaii County	1,039	492,154	738	481,664
Hilo	445	285,856	345	283,381
Kailua	216	103,003	162	100,759
Balance of county	378	103,295	231	97,524
Honolulu County	6,347	3,962,598	4,318	3,898,767
Ahuimanu	16	(D)	6	(D)
Aiea	274	254,358	189	252,013
Ewa	6	(D)	4	(D)
Ewa Beach	45	10,100	17	9,604
Hauula	13	5,304	6	5,269
Heeia	10	341	-	-
Hickam Housing	-	-	-	-
Honolulu	4,595	2,859,473	3,280	2,813,522
Iroquois Point	-	-	-	-
Kahaluu	5	(D)	1	(D)
Kailua	244	152,715	154	150,387
Kaneohe	220	182,230	138	180,237
Laie	13	1,738	2	(D)
Maile	7	2,783	6	(D)
Makaha	10	3,702	4	3,633
Makakilo City	15	2,599	5	2,424
Maunawili	19	1,643	4	1,569
Mililani Town	59	23,226	20	22,233
Mokapu	1	(D)	1	(D)
Nanakuli	16	10,567	11	10,469
Pearl City	186	122,823	90	120,958
Schofield Barracks ...	3	1,430	3	1,430
Wahiawa	140	55,200	89	54,208
Waialua	14	4,717	8	(D)
Waianae	56	41,490	38	41,148
Waimanalo	33	14,349	23	14,062
Waimanalo Beach	1	(D)	-	-
Waipahu	196	133,233	123	130,512
Waipio Acres	4	331	2	(D)
Balance of county	146	57,318	94	55,667

/ Continued on next page.

Table 648.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982 -- Con.

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
Kauai County	539	219,418	365	211,628
Hanamaulu	6	1,011	4	(D)
Kalaheo	14	2,724	5	2,334
Kapaa	150	47,147	102	45,487
Kekaha	10	2,146	4	1,998
Lihue	168	100,040	131	97,769
Balance of county	191	66,350	119	(D)
Maui County	992	519,236	718	509,612
Island of Lanai	11	3,728	9	(D)
Island of Molokai	45	14,147	30	13,852
Kahului	183	161,665	138	159,831
Kihei	85	42,021	56	41,442
Lahaina	309	138,309	251	135,396
Makawao	22	4,840	5	4,213
Pukalani	24	8,715	16	(D)
Wailuku	147	61,074	96	60,051
Balance of county	166	84,737	117	82,869

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), table 8.

Table 649.-- RETAIL TRADE, BY KIND OF BUSINESS: 1982 AND 1977

[Limited to establishments with payroll. Excludes establishments on military bases]

SIC code	Kind of business	Number of establishments, 1982	Sales: 1982 ($1,000)	Sales: 1977 ($1,000)	Sales: Percent change
	Retail trade	6,139	5,101,671	3,225,311	58.2
52	Building materials, hardware, garden supply	126	149,622	75,697	97.7
53	General merchandise	153	657,247	581,366	13.1
54	Food stores	797	1,081,175	651,163	66.0
55 ex. 554	Automotive dealers	227	540,566	458,497	17.9
554	Gasoline service stations ..	366	400,141	173,075	131.2
56	Apparel and accessory stores	793	379,746	208,514	82.1
57	Furniture, home furnishings, and equipment stores	335	160,828	98,135	63.9
58	Eating and drinking places .	1,741	872,558	478,966	82.2
591	Drug and proprietary stores	121	337,590	178,392	89.2
59 ex. 591	Miscellaneous retail stores	1,480	522,198	321,506	62.4

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1 and 2.

Table 650.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL: 1977 AND 1982

Merchandise line	Number of establishments		Sales ($1,000)	
	1977	1982	1977	1982
Total retail trade 1/	5,237	6,139	3,222,715	5,101,671
Groceries and other foods	994	1,127	607,831	908,817
Meals and snacks	1,501	1,852	407,809	762,547
Alcoholic drinks	657	892	89,649	139,845
Packaged alcoholic beverages	521	616	97,856	150,107
Cigars, cigarettes, and tobacco	596	717	35,569	63,754
Drugs 2/	396	674	48,354	265,268
Health and beauty aids 2/	576		71,285	
Men's and boys' clothing exc. footwear ..	732	816	130,678	186,809
Women's and girls' wear exc. footwear ...	823	977	212,663	358,826
Footwear exc. infants and toddlers	475	494	59,104	67,200
Sewing, knitting, and needlework goods 2/	328	178	49,749	25,803
Curtains, draperies, and dry goods 2/ ...		223		33,762
Major household appliances	170	173	33,755	47,975
Small electric appliances	242	202	14,987	31,128
TVs and video recorders and tapes	152	156	12,977	23,670
Audio equipment and musical instruments and supplies	265	270	31,966	47,674
Furniture and sleep equipment	200	185	44,484	73,472
Floor coverings	172	122	14,940	15,436
Kitchenware and home furnishings	661	430	63,732	54,895
Jewelry	871	860	143,117	165,600
Optical goods	152	103	8,113	10,010
Sporting goods	249	313	50,585	56,792
Hardware, tools, and plumbing and electrical supplies	243	253	31,443	56,361
Lawn and garden equipment and supplies ..	336	311	31,735	51,630
Lumber and building materials	171	152	31,343	100,242
Cars, trucks, and powered vehicles	94	97	337,895	391,570
Automotive fuels 2/	490	425	150,595	365,151
Automotive lubricants 2/		428		10,627
Auto tires, batteries, and accessories ..	600	518	86,804	121,699
All other merchandise	1,208	1,220	208,401	354,915
Unclassified merchandise	(X)	634	(X)	30,577
Nonmerchandise receipts	949	923	94,706	127,232
Miscellaneous merchandise	(X)	(X)	592	2,277

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

2/ Due to revisions in merchandise line categories, the number of establishments reported in 1977 and 1982 are not comparable. Sales, however, are additive and therefore, comparable between those two years.

Source follows next table.

Table 651.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL, BY GEOGRAPHIC AREA: 1982

Merchandise line	Number of establishments		Sales ($1,000)	
	Oahu	Other islands	Oahu	Other islands
Total retail trade 1/	4,318	1,821	3,898,767	1,202,904
Groceries and other foods	760	367	638,919	269,898
Meals and snacks	1,394	458	615,707	146,840
Alcoholic drinks	650	242	108,396	31,449
Packaged alcoholic beverages	407	209	112,975	37,132
Cigars, cigarettes, and tobacco	482	235	49,745	14,009
Drugs, health aids, and beauty aids	433	241	208,242	57,026
Men's and boys' clothing exc. footwear	500	316	146,419	40,390
Women's and girls' wear exc. footwear	608	369	285,930	72,896
Footwear exc. infants and toddlers	320	174	55,486	11,714
Sewing, knitting, and needlework goods	95	83	19,439	6,364
Curtains, draperies, and dry goods	118	105	26,956	6,806
Major household appliances	104	69	34,574	13,401
Small electric appliances	124	78	22,813	8,315
TVs and video recorders and tapes	104	52	18,699	4,971
Audio equipment and musical instruments and supplies	173	97	38,482	9,192
Furniture and sleep equipment	128	57	55,307	18,165
Floor coverings	70	52	10,450	4,986
Kitchenware and home furnishings	270	160	43,674	11,221
Jewelry	584	276	137,562	28,038
Optical goods	73	30	8,550	1,460
Sporting goods	202	111	44,229	12,563
Hardware, tools, and plumbing and electrical supplies	130	123	37,555	18,806
Lawn and garden equipment and supplies	183	128	37,276	14,354
Lumber and building materials	82	70	54,935	45,307
Cars, trucks, and powered vehicles	69	28	320,107	71,463
Automotive fuels	286	139	274,029	91,122
Automotive lubricants	282	146	7,539	3,088
Auto tires, batteries, and accessories	343	175	84,532	37,167
All other merchandise	787	433	277,014	77,901
Unclassified merchandise	434	200	24,303	6,274
Nonmerchandise receipts	676	247	96,847	30,385
Miscellaneous merchandise	(X)	(X)	2,076	201

Continued on next page.

Table 651.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL, BY GEOGRAPHIC AREA: 1982 -- Con.

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source: U.S. Bureau of the Census, Census of Retail Trade: Merchandise Line Sales, Hawaii for 1977 and 1982 (unpublished tabulations filed in the Hawaii State Department of Planning and Economic Development Library); cited in Hawaii State Department of Planning and Economic Development, Merchandise Line Sales in Hawaii, 1982 (Statistical Report 185, February 24, 1986).

Table 652.-- RETAIL SALES, BY TYPE OF STORE: 1982 AND 1984

[In millions of dollars. Data are estimates]

Type of store	1982	1984
Total 1/	5,193	6,363
Food stores	1,101	1,240
Supermarkets	976	1,099
General merchandise stores	659	823
Department stores	445	562
Automotive dealers	551	810
Eating and drinking places	880	1,111
Gasoline service stations	411	421
Apparel and accessories stores	383	523
Building materials, hardware dealers	154	198
Furniture, appliance, home furnishings	167	223
Furniture, home furnishings	59	73

1/ Includes other types of stores, not shown separately.

Source: Market Statistics data cited in Statistical Abstract of the United States: 1986, pp. 780-781.

Table 653.-- CHARACTERISTICS OF TEN LARGEST RETAILERS: 1983-1984

Name	Number of stores, 1984	Number of employees, 1984	Sales (mil. dol.) 1984	Sales (mil. dol.) 1983	Store area, 1984 (1,000 sq. ft.)
Foodland	28	1,270	213	205	735
Liberty House	50	(NA)	208	193	(NA)
Duty Free (Hawaii Division)	4	1,200	182	167	(NA)
Times Super Market	14	950	*170	*126	(NA)
Sears Roebuck	6	2,000	*130	(NA)	850
Servco Pacific	1/ 2	(NA)	130	102	(NA)
Safeway Stores	12	800	130	104	336
Longs Drugs	16	1,000	*118	(NA)	*240
Daiei (USA)	4	780	100	87	411
Star Markets	9	550	95	94	300

* Estimated.

NA Not available.

1/ Retail stores only.

Source: Hawaii Business, December 1985, p. 46.

Table 654.-- DEPARTMENT STORE SALES, FOR OAHU: 1982 TO 1985

[For earlier years, 1948-1982, see Data Book 1984, table 672. This survey was discontinued after April 1986]

Subject	1982	1983	1984	1985
Number of department stores, Dec.	21	(NA)	23	22
Department store sales 1/ ($1,000) ...	453,656	505,294	527,935	548,771

NA Not available.

1/ Includes sales of leased departments.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (Sept. 1984), table 4; "Revised Monthly Retail Sales and Inventories, January 1975 through December 1984," Current Business Reports, BR-13-85 (April 1985), p. 54; "Monthly Retail Trade, Sales and Inventories, December 1985," Current Business Reports, BR-85-12 (Feb. 1986), tables 8 and 8A.

Table 655.-- EATING PLACES AND DRINKING PLACES: 1982

[Data limited to establishments with payroll. Excludes establishments on military bases]

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments	773	26	545	300
Seating capacity	81,891	2,037	22,228	(NT)
Sales ($1,000)	466,188	9,588	262,001	63,043
With waiter or waitress service:				
Number of establishments	773	6	96	290
Sales ($1,000)	466,188	1,061	44,004	61,136
Establishments by average cost per meal:				
Under $2.00	9	-	83	...
$2.00 to $4.99	350	23	406	...
$5.00 to $9.99	232	3	56	...
$10.00 or more	182	-	-	...
Establishments by primary type of food service:				
Table, booth, counter seat with waiter/waitress service	773	-	59	...
Order and pay at counter with inside seating	-	-	272	...
Cafeteria line with inside seating	-	26	1	...
Take out/drive through	-	-	182	...
Other	-	-	31	...
Franchise holders:				
Number of establishments	48	(NT)	120	(NT)
Sales ($1,000)	31,158	(NT)	60,831	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), tables 7, 9, 11, and 14.

Table 656.-- RESTAURANT CHARACTERISTICS: 1983

[Based on a survey of 1,768 restaurants]

Subject	Percent
Island, total	100.0
Oahu	71.7
Other islands	28.3
Locality, total	100.0
Business district	33.8
Tourist area	24.9
Other	41.3
Type of service, total	100.0
Fast food	27.3
Family	21.6
Other	51.1
Price, total	100.0
Inexpensive	44.2
Moderate	51.8
Expensive	4.0
Ownership, total	100.0
Independent	65.4
Chain-owned	11.6
Other types	23.0
Types of food: 1/	
American	64.4
Japanese	25.8
Chinese	19.8
Seafood	14.8
Hawaiian	14.5
Continental	12.3
Italian	11.1
Korean	8.5
Filipino	7.6
Mexican	7.1

Subject	Percent
Meals served, total	100.0
All 3 meals	36.8
Lunch and dinner only	34.0
Breakfast and lunch only	10.5
Other combinations	18.7
Average check, total	100.0
$3.00 or less	27.7
$3.01 to $6.00	37.7
$6.01 to $10.00	18.2
$10.01 or more	16.4
Average amount	$6.44
Liquor served, total	100.0
None	52.8
Liquor, beer, and wine	39.3
Other combinations	7.9
Annual food/beverage sales, total	100.0
Under $100,000	25.1
$100,000 to $299,999	26.3
$300,000 to $999,000	29.3
$1,000,000 and over	19.3
Percent of sales to tourists, total	100.0
Under 10	48.1
10 to 49	24.5
50 or more	27.5
Average number of years in business	10.0
Average number of food and beverage employees	23.9
Full-time	13.8

1/ Multiple responses.

Source: Morton Fox and Danny Breatchel, Survey of the Hawaii Restaurant Industry (University of Hawaii at Manoa, School of Travel Industry Management, 1984).

Table 657.-- LIQUOR AND TOBACCO TAX BASES: 1980 TO 1985

[Wholesale value, in thousands of dollars. Excludes sales on military bases]

Year 1/	Liquor tax base 2/			Tobacco tax base
	Total	Base for taxes paid	Base for taxes contested	
1980	122,848	42,691	80,157	33,275
1981	132,513	49,182	83,332	35,151
1982	149,859	34,865	114,994	37,338
1983	145,935	14,009	131,927	49,580
1984	143,668	57,621	86,047	48,262
1985	161,107	70,352	90,755	47,188

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law are being held in escrow until the courts rule on the case.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 658.-- APPARENT CONSUMPTION OF ALCOHOL BEVERAGES, TOTAL AND PER CAPITA, BY TYPE OF BEVERAGE: 1977 TO 1984

Year	Total (1,000 gallons)			Per capita 1/ (gallons)		
	Distilled spirits	Wine	Beer	Distilled spirits	Wine	Beer
1977	2,190	1,901	24,490	2.2	1.9	24.7
1978	2,160	2,493	21,390	2.1	2.5	21.1
1979	2,200	2,427	25,110	2.1	2.3	24.1
1980	2,175	2,685	27,621	2.1	2.5	26.2
1981	2,165	2,628	29,633	2.0	2.5	27.8
1982	2,155	2,879	31,149	2.0	2.6	28.6
1983	2,180	2,727	33,325	2.0	2.4	29.9
1984	1,803	2,593	29,803	1.6	2.3	26.1

1/ Based on de facto population estimates in the Hawaii State Department of Planning and Economic Development, Statistical Reports 173 and 184.

Source: Distilled Spirits Council of the United States, Inc., Public Revenues from Alcohol Beverages (annual) and Annual Statistical Review (annual).

Table 659.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1982

[Data limited to establishments with payroll. Excludes establishments on military bases]

Kind of business	Number of establishments	Sales ($1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Department stores 1/ ...	24	444,778	2,058	1,332	334	64.7
Variety stores	38	75,993	759	554	137	73.0
Grocery stores	502	961,227	3,168	2,278	422	71.9

1/ Excluding leased departments.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, RC82-I-4, Miscellaneous Subjects (June 1985), table 26.

Table 660.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1985

[includes all centers on Oahu with more than 200,000 square feet of building area and all centers on other islands with more than 100,000 square feet of building area]

Island and name of center	Location	Year opened	Site area (acres)	Gross lease-able area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center ...	Honolulu	1959	50	1,500	7,800	155
Kahala Mall	Honolulu	1970	22	370	1,425	60
Pearl City S. C. ...	Pearl City	1965	15	249	871	60
Pearlridge Center ..	Aiea	1972	54	1,200	4,915	150
Royal Hawaiian S. C.	Honolulu	1981	6	280	600	(NA)
Waikiki Shopping Plaza	Honolulu	1977	1	300	300	50
Windward City S.C.	Kaneohe	1959	15	210	(NA)	40
Windward Mall	Kaneohe	1982	32	530	2,300	98
Hawaii:						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui:						
Kaahumanu Center ...	Kahului	1973	25	300	1,400	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	25	182	1,400	38
Kauai:						
Kukui Grove Center	Lihue	1982	35	311	1,590	52
Lihue S. C.	Lihue	1966	9	142	551	24

NA Not available.

Source: Hawaii Chapter, International Council of Shopping Centers, and the Chamber of Commerce of Hawaii, Hawaii Shopping Center Directory, 1985 Edition.

Table 661.-- MAJOR RETAIL CENTERS, FOR OAHU: 1972 TO 1982

[These tabulations were discontinued after 1982]

Geographic area	Number of retail establishments			Retail sales ($1,000)		
	1972	1977	1982	1972	1977	1982
Oahu total	4,235	5,262	6,347	1,489,602	2,574,973	3,962,598
Honolulu CBD: 1/						
1972 definition ..	353	415	(NA)	65,471	94,811	(NA)
1977 definition ..	(NA)	485	523	(NA)	122,873	177,254
Ala Moana Center ...	224	187	196	218,844	307,498	423,895
Waikiki 2/	597	646	1,082	169,084	307,233	600,615
Kahala Mall	60	55	54	41,625	47,407	*82,977
Pearlridge Center ..	32	102	133	18,606	118,867	*173,953

* Excludes establishments without payroll (Kahala Mall, 1; Pearlridge Center, 3).

NA Not available.

1/ The Honolulu Central Business District was redefined in 1977 to include the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, and Honolulu Harbor. Before 1977, the CBD as defined excluded that part between Beretania Street and School Street. For comparable statistics back to 1948, see DPED Statistical Memorandum 80-7 (July 31, 1980).

2/ Waikiki is defined as the area bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean.

Source: Hawaii State Department of Planning and Economic Development, Retail Trade in Downtown Honolulu, 1948-1977 (Statistical Memorandum 80-7, July 31, 1980). U.S. Bureau of the Census, 1972 Census of Retail Trade, Major Retail Centers, Hawaii, RC72-C-12 (November 1974), table 1; 1977 Census of Retail Trade, Major Retail Centers, Hawaii, RC77-C-12 (February 1980), table 1; 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 662.-- PERCENT OF OAHU RETAIL SALES IN MAJOR RETAIL CENTERS: 1948 TO 1982

[These series were discontinued after 1982]

Year	Honolulu CBD 1/		Ala Moana Center	Waikiki	Kahala Mall	Pearlridge Center
	1972 defin.	1977 defin.				
1948	24.4	27.5	...	5.4	...	...
1954	19.7	(NA)	...	(NA)	(NA)	...
1958	15.4	(NA)	...	7.7	1.0	...
1963	9.1	9.5	10.8	7.6	(NA)	...
1967	6.1	(NA)	13.6	9.3	1.8	...
1972	4.4	(NA)	14.7	11.4	2.8	1.2
1977	3.7	4.8	11.9	11.9	1.8	4.6
1982	(NA)	4.5	10.7	15.2	*2.1	*4.5

*Based on data limited to establishments with payroll.

NA Not available.

1/ See preceding table, footnote 1.

Source: Hawaii State Department of Planning and Economic Development, Major Retail Centers on Oahu, 1972-1982 (Statistical Memorandum 84-4, November 14, 1984), table 2.

Table 663.-- VIDEOCASSETTE RECORDER SALES: 1978 TO 1985

Year	Total units	Residential use	Commercial use
1978	2,196	2,140	56
1979	3,332	3,124	208
1980	4,892	4,555	337
1981	7,514	6,946	568
1982	15,566	15,178	388
1983	25,360	25,032	328
1984	44,720	44,285	435
1985	63,782	62,548	1,234

Source: Hawaiian Electric Company, Inc., Market Research, records.

Table 664.-- COMMISSARY, EXCHANGE, AND CLUB SALES AND HOTEL RECEIPTS OF THE ARMED FORCES: 1972 TO 1985

[In thousands of dollars. Data for food service facilities, incomplete before 1977, and miscellaneous facilities, incomplete before 1982, are excluded from this table but are included in the following table]

Year	Commissary, exchange, and club sales 1/			Hotel receipts 3/
	Commissaries	Exchanges 2/	Clubs 2/	
1972	37,618	87,702	10,768	-
1973	41,017	92,014	11,826	-
1974	45,682	101,127	11,672	-
1975	67,183	129,495	18,993	-
1976	67,183	129,341	21,085	6,365
1977	66,550	133,878	23,347	7,356
1978	77,034	149,493	22,930	8,151
1979	83,595	150,159	24,554	8,922
1980	98,237	166,564	19,367	10,114
1981	107,236	191,181	19,112	11,767
1982	115,314	217,647	20,910	13,796
1983	127,229	217,171	24,411	14,288
1984 4/	129,796	225,614	23,989	14,341
1985	135,014	227,588	24,440	14,573

1/ Calendar year statistics.

2/ Data incomplete before 1976.

3/ Room, food, and beverage receipts of Hale Koa Hotel, for years ended September 30. Hale Koa opened in October 1975.

4/ Revised.

Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1985 (Statistical Report 186, May 15, 1986).

Table 665.-- SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES, BY TYPE OF FACILITY: 1984 AND 1985

[Thousands of dollars. Data exclude Hale Koa Hotel]

Type of facility	1984 1/	1985
Total	442,820	438,001
Commissaries	129,796	135,014
Exchanges	225,614	227,588
Clubs	23,989	24,440
Food services	16,878	18,467
Package stores	18,662	18,562
Gas stations 2/	20,571	6,686
Vending outlets	7,309	6,968
Motion pictures	(NA)	276

NA Not available
1/ Revised from Data Book 1985, table 639.
2/ Decline reflects change in reporting methods.
Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1985 (Statistical Report 186, May 15, 1986).

Table 666.-- RETAIL SALES AND HOTEL RECEIPTS AT CIVILIAN AND MILITARY ESTABLISHMENTS: 1983 TO 1985

[In millions of dollars]

Year	Retail sales 1/			Hotel receipts 2/		
	Total	Civilian	Military	Total	Civilian	Military
1983	7,868.6	7,438.2	430.4	867.2	852.9	14.3
1984	8,554.7	8,111.9	442.8	987.9	973.6	14.3
1985	8,937.3	8,499.3	438.0	1,113.2	1,098.6	14.6

1/ Calendar year statistics.
2/ Years ended September 30.
Source: Hawaii State Department of Planning and Economic Development, Retail Sales and Hotel Receipts of the Armed Forces, 1985 (Statistical Report 186, May 15, 1986).

Table 667.-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor Islands
Number of establishments	1,569	1,737	1,417	320
Sales ($1,000)	2,571,489	4,084,369	3,392,728	691,641
Annual payroll ($1,000)	177,556	287,626	250,836	36,790
First quarter payroll ($1,000)	43,517	69,858	(NA)	(NA)
Paid employees for pay period including March 12 (number)	14,695	17,210	14,750	2,460
Operating expenses ($1,000)	375,803	620,882	(NA)	(NA)
Inventories ($1,000):				
Beginning of year	(NA)	457,525	(NA)	(NA)
End of year	248,195	440,723	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1977 Census of Wholesale Trade, Hawaii, WC77-A-12 (Revised) (March 1980), table 1; 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 668.-- WHOLESALE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL: 1983 AND 1984

Major industry group	Number of establishments		Employees, week including Mar. 12		Annual payroll ($1,000,000)	
	1983	1984	1983	1984	1983	1984
All wholesale trade	1,834	1,766	17,666	18,002	316.8	346.5
Durable goods	947	899	8,728	8,803	167.5	184.3
Nondurable goods	859	844	8,528	8,743	137.6	149.2
Administrative and auxiliary	28	23	410	456	11.7	13.1

Source: U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986), p. 1.

Table 669.-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1982

Geographic area	All wholesalers: Number of establishments	All wholesalers: Sales ($1,000)	Merchant wholesalers: Number of establishments	Merchant wholesalers: Sales ($1,000)
State total	1,737	4,084,369	1,434	2,496,494
Hawaii County	159	285,513	133	152,353
Hilo	107	242,071	90	(D)
Kailua	16	11,835	15	(D)
Honolulu County	1,417	3,392,728	1,169	2,140,295
Aiea	26	64,848	21	58,510
Ewa Beach	12	42,470	10	(D)
Honolulu	1,221	2,950,750	1,016	1,872,910
Kailua	30	25,978	16	5,776
Kaneohe	13	7,460	11	(D)
Pearl City	28	73,908	22	37,300
Waipahu	31	103,617	27	72,012
Kauai County	51	81,030	40	52,557
Lihue	33	55,556	25	40,755
Maui County	110	325,098	92	151,289
Island of Lanai	1	(D)	-	-
Island of Molokai ...	3	(D)	1	(D)
Kahului	54	189,855	43	(D)
Wailuku	35	41,769	32	(D)

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 8.

Table 670a -- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1982

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,737	4,084,369
Type of operation:		
Merchant wholesalers	1,434	2,496,494
Manufacturers' sales branches and offices	160	1,269,797
Agents, brokers, and commission merchants	143	318,078
Kind of business:		
Motor vehicles and automotive parts and supplies	103	293,883
Furniture and home furnishings	59	68,643
Lumber and other construction materials	91	126,739
Sporting, recreational, photo, and hobby goods, toys and supplies	53	83,413
Metals and minerals, except petroleum	12	25,358
Electrical goods	107	244,951
Hardware, and plumbing and heating equipment and supplies	83	98,641
Machinery, equipment, and supplies	268	418,117
Miscellaneous durable goods	123	83,484
Paper and paper products	66	104,774
Drugs, drug proprietaries, and druggists' sundries	42	122,196
Apparel, piece goods, and notions	70	71,081
Groceries and related products	339	1,187,153
Farm-product raw materials	4	4,182
Chemicals and allied products	33	68,316
Petroleum and petroleum products	42	671,552
Beer, wines, and distilled alcoholic beverages	37	175,607
Miscellaneous nondurable goods	205	236,279

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 2.

Table 671.-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor islands
Number of establishments	(NA)	6,124	4,864	1,260
Excluding health services 1/ ...	(NA)	4,470	3,535	935
Receipts ($1,000)	(NA)	2,659,651	1,974,216	685,435
Excluding health services 1/ ...	1,269,740	2,239,440	1,642,415	597,025
Annual payroll ($1,000)	(NA)	904,328	688,918	215,410
Excluding health services 1/ ...	409,725	729,107	550,547	178,560
First quarter payroll ($1,000) ...	(NA)	221,453	169,166	52,287
Paid employees for pay period including March 12 (number)	(NA)	71,051	52,849	18,202

NA Not available.

1/ Other than hospitals.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a, 2a, 4a, and 5a.

Table 672.-- SERVICE ESTABLISHMENTS, EMPLOYMENT, AND PAYROLL, FOR SELECTED INDUSTRY GROUPS: 1983 AND 1984

Major industry group	Number of establishments		Employees, week including March 12		Annual payroll (1,000,000)	
	1983	1984	1983	1984	1983	1984
All services ...	7,893	7,869	102,070	106,179	1,398	1,541
Hotels	239	241	24,258	25,698	288	329
Business services ...	1,119	1,063	13,803	15,010	158	177
Health services	1,811	1,852	20,744	21,696	399	435

Source: U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986), pp. 1-2.

Table 673.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1982

Geographic area	Number of establishments		Receipts ($1,000)	
	All services	Hotels 1/	All services	Hotels 1/
State total	6,124	209	2,659,651	973,328
Hawaii County	551	31	258,568	142,430
Hilo	328	11	84,145	11,746
Kailua	91	11	53,919	38,275
Honolulu County	4,864	118	1,974,216	575,692
Aiea	134	2	28,124	(D)
Ewa Beach	12	-	1,796	-
Honolulu	3,958	109	1,762,672	543,972
Kailua	200	1	31,712	(D)
Kaneohe	122	-	22,444	-
Makakilo City	20	-	2,374	-
Mililani Town	16	-	3,504	-
Pearl City	103	-	20,529	-
Wahiawa	85	-	13,646	-
Waianae	24	2	10,889	(D)
Waipahu	76	-	15,329	-
Kauai County	211	22	88,590	43,623
Kapaa	34	5	13,104	8,793
Lihue	103	5	47,610	(D)
Maui County	498	38	338,277	211,583
Island of Lanai ...	5	1	677	(D)
Island of Molokai .	14	2	3,134	(D)
Kahului	145	2	59,277	(D)
Kihei	25	3	7,434	(D)
Lahaina	68	15	98,651	83,472
Wailuku	174	1	40,639	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), table 8.

Table 674.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1982 AND 1977

SIC code	Kind of business or operation	Number of establishments, 1982	Receipts		
			1982 ($1,000)	1977 ($1,000)	Percent change
	Total	6,124	2,659,651	(D)	(D)
70	Hotels, motels, other lodging	209	973,328	548,706	77.4
72	Personal services	663	100,785	70,708	42.5
73	Business services	1,024	313,686	154,427	103.1
75	Automotive repair, services, and garages .	567	249,342	157,015	58.8
76	Miscellaneous repair services	241	47,779	32,369	47.6
78, 79	Amusement and recreation services, incl. motion pictures	312	128,452	79,777	61.0
80, ex. 806	Health services, except hospitals	1,654	420,211	(D)	(D)
81	Legal services	636	173,129	65,120	165.9
823, 4, 9	Selected educational services	58	8,032	6,333	26.8
891	Engineering, architectural, surveying serv.	336	158,104	107,129	47.6
893	Accounting, auditing, bookkeeping services ..	308	75,046	43,444	72.7
83, 892, 9	Social and other services	116	11,757	4,712	149.5

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a and 2a.

Table 675.-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1982

[Includes only establishments with payroll]

Subject	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging .	209	973,328	287,299	26,078
Hotels	178	964,192	284,833	25,718
25 guestrooms or more	158	962,079	284,296	25,644
Less than 25 guestrooms	20	2,113	537	74
Motels, motor hotels, tourist courts	26	8,935	2,421	352
Other lodging places 1/	5	201	45	8
EXEMPT FROM FEDERAL INCOME TAX				
Hotels, camps, membership lodging 2/	8	1,319	473	64

1/ Trailering parks and camps, 1 establishment; rooming, boarding, and membership lodging, 4.

2/ Hotels, 2 establishments; sporting and recreational camps, 3; organization hotels and lodging houses, on membership basis, 3.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3 and 5.

Table 676.-- HOTEL AND MOTEL CHARACTERISTICS, FOR OAHU: 1982

[Includes only establishments with payroll]

Subject	Hotels, 25 guestrooms or more	Hotels, less than 25 guestrooms	Motels, tourist courts
Number of establishments	95	9	9
Guestrooms as of Dec. 31 1/	31,449	127	578
Receipts, by source ($1,000):			
From customers	569,103	581	4,328
Guestroom rentals	370,474	(S)	(S)
Meals and nonalcoholic beverages	124,136	(S)	(S)
Alcoholic beverages	44,639	(S)	(S)
Packaged liquor, wine, and beer	(D)	(S)	(S)
Sales of gasoline, oil, etc.	-	(S)	(S)
Sales of other merchandise	(D)	(S)	(S)
Other sources	27,507	(S)	(S)
From sources other than customers	27,270	(S)	(S)

D Withheld to avoid disclosing data for individual companies.

S Withheld because estimates did not meet publication standards.

1/ For establishments in business at end of year, guestrooms numbered 31,576, including 30,550 for transient guests and 1,026 for residential guests.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hotels, Motels, and Other Lodging Places, SC82-I-3 (November 1985), tables 2 and 5.

Table 677.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1966 TO 1986

[Includes condominium units in rental pools for transient occupancy]

Year	Number of hotel units, February 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor Islands	State total 3/	Waikiki	Neighbor Islands
1966	14,827	11,083	3,744	(NA)	83.7	67.1
1967	17,217	12,598	4,619	85.5	90.0	72.8
1968	18,657	13,166	5,491	83.7	89.2	75.2
1969	22,801	15,992	6,809	77.8	81.3	69.3
1970	26,923	18,449	8,474	71.2	74.1	64.8
1971	32,289	22,531	9,758	60.4	58.9	63.5
1972	35,797	24,742	11,055	68.9	70.0	66.4
1973	36,608	25,108	11,500	77.7	81.5	70.2
1974	38,675	25,365	13,310	77.5	82.0	69.4
1975	39,632	25,352	14,280	74.1	78.3	68.3
1976	42,648	25,851	16,797	76.9	82.6	68.4
1977	44,986	27,363	17,623	77.4	81.2	71.7
1978	47,070	28,546	18,524	79.5	82.1	75.5
1979	49,832	30,065	19,767	73.8	77.1	70.2
1980	54,246	34,334	19,912	69.3	71.7	64.1
1981	56,769	33,967	22,802	68.2	73.9	59.8
1982	57,968	33,492	24,476	70.4	77.7	60.0
1983	58,765	34,354	24,411	69.7	76.6	60.9
1984	62,448	36,848	25,600	76.0	82.6	69.1
1985	65,919	38,600	27,319	76.1	80.8	69.7
1986	66,308	39,010	27,298	(NA)	(NA)	(NA)

NA Not available.

1/ Except 1966 (January).

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (periodic), and records.

Table 678.-- VISITOR ACCOMMODATIONS, BY TYPE: 1976 TO 1986

[As of February]

Year and island	Properties			Units		
	Total	Hotels 1/	Condominiums 2/	Total	Hotels 1/	Condominiums 2/
1976	314	(NA)	(NA)	42,648	(NA)	(NA)
1977	335	(NA)	(NA)	44,986	39,901	5,085
1978	353	(NA)	(NA)	47,070	40,001	7,069
1979	381	(NA)	(NA)	49,832	41,299	8,533
1980	387	(NA)	(NA)	54,246	42,609	11,637
1981	412	214	198	56,769	42,575	14,194
1982	417	208	209	57,968	43,568	14,400
1983	426	218	208	58,765	45,352	13,413
1984	443	209	234	62,448	44,846	17,602
1985	481	207	274	65,919	44,115	21,804
1986	523	201	322	66,308	43,309	22,999
ISLANDS: 1986						
Oahu	207	105	102	39,010	29,172	9,838
Waikiki 3/	177	88	89	34,650	25,920	8,730
Rest of Oahu	30	17	13	4,360	3,252	1,108
Other islands	316	96	220	27,298	14,137	13,161
Hawaii	81	31	50	7,280	5,228	2,052
Kauai	77	29	48	5,922	3,348	2,574
Maui	150	33	117	13,451	5,231	8,220
Molokai	7	2	5	635	320	315
Lanai	1	1	-	10	10	-

NA Not available.

1/ Hotels, apartment hotels, motels, and cottages. Excludes condominium properties.

2/ Condominium accommodations in rental pcols for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 88 hotels properties include 61 hotels (with 24,733 units), 26 apartment hotels (with 1,175 units), and 1 cottage facility (with 12 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, 1976 to 1986.

Table 679.-- GENERAL EXCISE TAX BASE FOR RENTALS: 1975 TO 1985

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1975	1,019,792	365,919	653,873
1976	1,161,955	433,300	728,655
1977 3/	1,274,918	482,990	791,929
1978 3/	1,392,947	535,874	857,073
1979	1,699,947	672,098	1,027,848
1980	1,820,715	708,620	1,112,095
1981	2,040,505	770,705	1,269,800
1982	2,265,287	844,926	1,420,361
1983	2,470,820	876,227	1,594,593
1984	2,743,855	984,518	1,759,337
1985	3,037,254	1,122,268	1,914,986

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 680.-- HOTEL OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY ISLANDS: ANNUAL AVERAGES, 1984 AND 1985

[1984 figures revised from Data Book 1985, table 655]

Subject and year	The State	Oahu	Hawaii	Maui	Kauai
Percentage of occupancy:					
1984	76.91	83.03	55.57	80.48	63.02
1985	76.13	81.51	57.59	78.50	64.77
Average daily room rate (dollars):					
1984	59.84	50.06	58.13	88.89	65.09
1985	68.84	57.70	64.06	98.51	70.06
Average daily guest rate (dollars):					
1984	29.88	25.21	29.48	43.64	31.33
1985	34.39	29.24	32.33	47.86	33.95
Average daily food sales per room (dollars):					
1984	21.01	16.88	26.99	30.37	22.92
1985	22.11	18.40	27.01	29.95	20.86
Average daily beverage sales per room (dollars):					
1984	7.56	5.73	10.55	11.51	8.41
1985	7.89	6.05	9.79	12.14	6.93
Average food sales per cover (dollars):					
1984	9.94	9.11	11.07	11.08	10.39
1985	10.79	10.07	11.91	11.55	11.22

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1985.

Table 681.--AVERAGE DAILY ROOM AND GUEST RATES, BY ISLANDS: 1976 TO 1986

[In dollars. Annual averages, unless otherwise specified]

Type of rate and year	The State	Oahu	Hawaii	Maui	Kauai
Average daily room rate:					
1976	29.54	26.70	30.52	37.61	34.51
1977	34.28	31.87	33.08	42.59	38.45
1978	38.49	35.95	36.46	47.49	42.20
1979	44.41	41.32	41.93	57.10	47.90
1980	47.28	42.83	46.40	61.14	54.38
1981	49.73	43.05	47.16	73.27	56.06
1982	51.78	44.80	47.37	75.02	58.48
1983	54.78	46.93	48.84	81.60	59.78
1984	59.25	49.45	57.17	88.89	65.05
1985	68.84	57.70	64.06	98.51	70.06
1986 1/	74.02	62.66	75.43	114.42	75.36
Average daily guest rate:					
1976	15.14	13.87	15.56	18.64	17.20
1977	17.42	16.42	16.62	21.22	18.91
1978	19.41	18.23	18.41	23.62	20.60
1979	22.70	21.10	21.59	29.70	23.75
1980	24.40	22.32	24.03	31.52	26.32
1981	25.70	22.56	24.41	37.04	27.42
1982	26.44	23.39	24.64	35.82	28.84
1983	27.71	24.28	22.29	40.53	29.66
1984	29.59	24.91	29.00	43.64	31.31
1985	34.39	29.24	32.33	47.86	33.95
1986 1/	36.93	31.82	38.06	54.59	35.92

1/ First nine months.

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii (monthly).

Table 682.-- HOTEL EMPLOYMENT, PAYROLL, AND INCOME RATIOS: 1982 TO 1985

[All series in this table exclude condominium units in rental pools for transient occupancy]

Subject	1982	1983	1984	1985
Hotel units, February	43,568	45,352	44,846	44,115
Hotel employment, annual average 1/ .	26,475	26,888	28,262	28,947
Per hotel unit	0.608	0.593	0.630	0.656
Hotel payrolls, annual 1/ ($1,000) ..	291,344	329,267	369,292	393,701
Per hotel unit (dollars)	6,687	7,260	8,235	8,924
Per hotel employee (dollars)	11,004	12,246	13,067	13,601
Hotel income, annual 2/ ($1,000)	844,926	876,227	984,518	1,122,268
Per hotel unit (dollars)	19,393	19,321	21,953	25,440
Per hotel employee (dollars)	31,914	32,588	34,835	38,770

1/ For workers covered by the Hawaii Employment and Security Law.

2/ General excise tax base.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (February issues); Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual); Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 683.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1980 TO 1985

[Includes resort condominium units]

Geographic area	1980	1981	1982	1983	1984	1985
State total	69.3	68.2	70.4	69.7	76.0	76.1
Oahu	72.3	74.1	77.8	75.8	81.2	81.5
Waikiki	71.7	73.9	77.7	76.6	82.6	80.8
Hawaii	51.0	44.9	44.0	44.7	55.6	57.6
Hilo	34.4	35.3	37.7	39.2	58.2	57.8
Kailua-Kona	59.0	49.4	46.9	47.0	54.9	57.5
Maui	74.2	70.3	73.9	75.2	80.5	78.5
West Maui	76.1	73.7	78.0	77.8	84.1	82.5
Other	68.4	58.3	61.4	67.0	70.3	69.6
Kauai	69.6	62.7	57.5	57.2	63.0	64.8
South	52.5	46.2	44.2	50.2	63.1	70.1
East	75.1	68.5	63.4	59.3	63.0	62.6

Source: Hawaii Visitors Bureau, Annual Research Report for 1980-1985 and records, from surveys by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 684.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES, BY COUNTIES: 1984

Subject	State total	Honolulu	Hawaii	Kauai and Maui
Establishments with payroll	439	362	28	1/ 49
Employees, week including March 12	4,359	3,701	307	351
Annual payroll ($1,000)	52,190	46,185	2,530	3,475

1/ Kauai County, 12; Maui County, 37.

Source: Data for SIC 4722, passenger transportation arrangement, in U.S. Bureau of the Census, County Business Patterns 1984, Hawaii, CBP-84-13 (July 1986).

Table 685.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1982

[Data limited to establishments with payroll. For 1977 data, see Data Book 1984, table 688; for 1972, see Data Book 1977, table 360]

Subject	Total	Travel agencies	Tour operators	Other services
STATE TOTALS				
Number of establishments	403	232	110	61
Receipts ($1,000)	128,484	39,021	68,506	20,957
Annual payroll ($1,000)	44,268	15,858	21,540	6,870
Paid employees, mid-March	4,125	1,625	1,931	569
OAHU				
Number of establishments	351	196	101	54
Receipts, total ($1,000)	116,923	34,278	64,672	17,973
Commissions 1/	(S)	(S)	3,483	(S)
Tour operations 2/	(S)	(S)	56,682	(S)
All other sources	(S)	(S)	4,507	(S)
Annual payroll ($1,000)	40,277	13,984	20,176	6,117
Paid employees, mid-March	3,685	1,433	1,780	472

S Withheld because estimates did not meet publication standards.

1/ Includes commissions and other receipts from retail sale of passenger transportation and lodging.

2/ Receipts consist of difference between cost of assembling tours and price received, whether sold at wholesale only or both wholesale and retail. For tour operators selling at retail only, difference between selling price and cost is included with "commissions and other receipts."

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 46 and 47.

Table 686.-- SELECTED SERVICE INDUSTRIES: 1982

[Includes only establishments with payroll]

Kind of business	SIC code	Establishments (number)	Receipts 1/ ($1,000)	Annual payroll ($1,000)	Paid employees, 2/ mid-March
STATE TOTALS					
Architectural services	891	146	55,734	19,682	927
Engineering services	891	166	98,612	42,680	1,910
Surveying services	891	24	3,758	2,144	152
Accounting, auditing, bookkeeping	893	308	75,046	30,775	1,962
OAHU					
Credit reporting, collection agencies	732	26	9,189	(NA)	(NA)
Portrait photography	722	29	4,645	(NA)	(NA)
Computer and data processing services	737	72	45,839	(NA)	(NA)
Legal services	81	532	156,310	(NA)	(NA)

NA Not available.

1/ For receipts by source, see report cited below.

2/ For personnel by occupation, see report cited below.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Miscellaneous Subjects, SC82-I-5 (December 1985), tables 7, 8, 10, 30, 35, 37, 38, and 39.

Table 687.-- MOTION PICTURE SERVICES: 1977 AND 1982

[Data limited to establishments with payroll]

Subject and year	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, week inc. Mar. 12
Motion picture production, distribution, and services:				
1977	11	926	174	31
1982	15	4,203	1,147	74
Motion picture theaters:				
1977 1/	50	17,444	(D)	(D)
1982	34	21,329	3,195	519
Theaters, except drive-in	31	(D)	(D)	(D)
Drive-in theaters	3	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Data include 3 establishments without payroll.

Source: U.S. Bureau of the Census, *1977 Census of Service Industries, Hawaii*, SC77-A-12 (December 1979), *1982 Census of Service Industries, Hawaii*, SC82-A-12 (September 1984), and *1982 Census of Service Industries, Motion Picture Industry*, SC82-I-4 (December 1985).

Table 688.-- MOTION PICTURE THEATER CHARACTERISTICS, FOR OAHU: 1982

[Includes only establishments with payroll]

Type of theater	Establishments	Receipts ($1,000)
All motion picture theaters	29	(D)
Motion picture theaters, except drive-in	26	1/ 16,438
Single-screen 2/	13	3,873
Multiple-screen 2/	3/ 13	11,737
Drive-in motion picture theaters	3	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Includes receipts from admissions ($12,407), refreshment stands and vending machines operated by theater ($3,330), and all other receipts from theater patrons ($701), but excludes net receipts from concessions or vending machines not owned by theater and receipts from screen advertising ($51). Promotional expenditures amounted to $280,000.

2/ Data limited to establishments in business at end of year. Hence, the sum of receipts by type of theater may not add to total receipts.

3/ Includes 12 establishments with 2 screens, 1 with 3 or 4, and none with 5 or more.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Motion Picture Industry, SC82-I-4 (December 1985).

Table 689.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1980 TO 1985

Subject	1980	1981	1982	1983	1984	1985
Number of features filmed ..	58	54	66	63	76	66
Feature films for theater viewing	6	2	1	1	2	1
Feature films for TV viewing	2	1	3	2	2	4
Television specials and series 1/	50	51	62	60	72	61
Gross budgets (millions of dollars) 2/	47.5	40.0	50.0	65.5	77.1	80.6
Feature films and television specials and series	36.5	32.0	37.6	41.2	53.4	60.5
Television commercials and related advertising	11	8.0	12.4	24.3	23.7	20.1
Expenditures in Hawaii for feature films and TV specials and series (millions of dollars)	21.2	17.0	31.6	35.2	38.2	40.6
Tax revenues generated (millions of dollars)	1.9	1.5	2.98	3.32	3.54	3.8
Employment: Total	1,551	1,244	2,625	2,575	2,720	(NA)
Direct	1,051	843	1,567	1,745	1,850	(NA)
Spending effect on economy (millions of dollars)	48.2	38.7	71.9	80.1	86.9	92.4

NA Not available.

1/ Each program in a series counted separately.

2/ Includes post-production costs out of the State.

Source: Hawaii State Department of Planning and Economic Development, Film Industry Branch, records.

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $784 million in 1975 to $1.8 billion in 1985. Exports to foreign countries amounted to only $96 million in 1975, but by 1985 reached $389 million. These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $1.3 billion in 1970 to $4.9 billion in 1983. Estimates of the value of merchandise shipped to the Mainland are no longer available.

Among the foreign nations, Hawaii's leading trading partner in 1985 was Japan for both imports and exports. Imports for consumption from Japan amounted to $466 million, or 27 percent of the total, while exports to Japan reached $84 million or 22 percent of all foreign exports. About 51 percent of all imports for consumption were petroleum and natural gas products and monolithic integrated circuits.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $39 million in fiscal 1985. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $1.45 billion, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 276 establishments in 1982, and employed 14,000 persons with an annual payroll of $198 million. Foreign investments in Hawaii between 1959 and 1984 exceeded $2.4 billion.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign Trade Zone No. 9 and Subzone No. 9A, and the International Services Branch of the Hawaii State Department of Planning and Economic Development. Further information is found in waterborne cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1986. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 690.-- INTERSTATE AND FOREIGN TRADE: 1958 TO 1985

[Merchandise imports and exports, foreign and domestic, in millions of current dollars]

Year	Merchandise imports					Merchandise exports, total 1/
	Total	Domestic			Foreign	
		Total	Waterborne	Air		
1958	459.2	425.8	340.0	85.8	33.4	253.2
1959	499.4	465.2	379.3	85.9	34.2	276.1
1960	587.2	540.3	452.7	87.6	46.9	263.8
1961	571.8	512.4	425.3	87.1	59.3	281.5
1962	568.4	499.7	413.7	86.0	68.7	293.7
1963	644.2	569.6	482.8	86.9	74.6	334.4
1964	676.4	590.3	502.6	87.6	86.1	321.5
1965	1,189.9	1,093.2	1,004.5	88.6	96.8	331.6
1966	962.6	857.5	767.7	89.8	105.1	351.2
1967	848.5	723.4	631.3	92.0	125.1	372.7
1968	996.0	853.4	759.0	94.4	142.6	377.7
1969	1,045.3	874.3	775.8	98.5	171.0	326.2
1970	1,431.5	1,256.8	1,172.5	84.3	174.7	358.6
1971	1,258.1	1,034.6	888.7	145.9	223.6	431.8
1972	1,462.5	1,218.8	1,082.2	136.6	243.7	371.8
1973	1,892.9	1,578.0	1,460.1	117.9	314.9	570.6
1974	2,510.0	1,962.9	1,825.0	137.8	547.2	1,036.3
1975	2,843.0	2,044.8	1,872.8	172.0	798.2	874.3
1976	3,310.8	2,488.8	2,269.2	219.5	822.0	879.6
1977	3,792.1	2,885.1	2,648.3	236.8	907.1	936.5
1978	3,973.1	2,967.9	2,716.9	251.0	1,005.2	1,032.8
1979	5,001.2	3,897.0	3,636.9	260.1	1,104.3	1,182.3
1980	6,239.4	4,779.7	4,577.9	201.9	1,459.7	1,562.4
1981	6,241.3	4,716.1	4,500.2	215.9	1,525.2	1,289.1
1982	5,933.8	4,700.3	4,478.8	221.5p	1,233.5	1,274.4
1983	6,461.8	5,096.3	4,856.6	239.7p	1,365.5	1,440.7
1984	6,906.9	5,309.4	5,047.9	261.5p	1,597.5	1,419.8
1985	7,296.2	5,564.2	5,290.2	274.0p	1,732.0	1,336.3

p Preliminary
1/ Not available separately for foreign and domestic exports.
Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958-1983 (1985), and unpublished updates and revisions.

Table 691.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1968 TO 1985

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1968	142.5	138.7	49.0
1969	171.0	167.3	46.4
1970	174.7	167.4	51.2
1971	223.6	215.5	46.3
1972	244.3	227.5	60.4
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3
1981	1,982.2	1,525.4	237.7
1982	1,732.7	1,509.4	219.0
1983	1,828.0	1,433.5	203.3
1984	1,614.2	1,397.9	316.9
1985	1,756.3	1,553.1	388.8

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT990 (through 1973) and Highlights of U.S. Export and Import Trade, FT990 (1974 and later), cumulative totals in December issues.

Table 692.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1985

[See headnote to preceding table]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,756.3	(NA)
Vessel	1,111.6	7,454.4
Air	556.3	20.1
Imports for consumption, all methods 3/	1,553.1	(NA)
Exports, all methods 2/	388.8	(NA)
Vessel	156.6	1,708.8
Air	53.9	15.4

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1985, tables B-6, C-10, and C-11.

Table 693.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1982 TO 1985

Year	Pounds	Value (dollars)
1982	871,304	1,210,675
1983	76,537	101,438
1984	458,197	728,892
1985	578,692	855,620

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations, 1982 and 1985) and IA 245-X (1983 and 1984).

Table 694.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1984 AND 1985

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts]

Region	Imports for consumption		Exports of domestic merchandise	
	1984	1985	1984	1985
All regions	1,614,157,805	1,756,256,046	316,882,059	388,837,228
Africa	247,679	754,108	87,225	152,422
Asia	1,307,837,312	1,301,666,271	201,399,427	290,236,990
Australia and Oceania ...	156,105,230	276,700,872	99,183,487	62,477,479
Europe	105,839,232	124,849,603	1,627,408	21,270,646
Latin America 1/	19,504,441	26,173,151	1,439,331	7,732,909
North America 2/	24,623,911	26,112,041	13,145,181	6,966,782

1/ Includes Central and South America, Bermuda, and the Caribbean.
2/ Excluding Latin America.
Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade, A Statistical Digest (annual).

Table 695.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, TOTAL AND BY LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1985

[See headnote to preceding table]

Country	Total	Imports for consumption	Exports of domestic merchandise
All countries	2,145,093,274	1,756,256,046	388,837,228
Japan	549,866,700	466,191,516	83,675,254
Indonesia	287,068,149	286,743,893	324,256
Australia	275,596,934	246,948,196	28,648,738
Singapore	238,817,625	216,845,020	21,972,605
Taiwan (Republic of China) ..	141,951,166	117,063,730	24,887,436
Republic of Korea	95,103,792	31,736,327	63,367,465
People's Republic of China ..	75,037,369	6,718,386	68,318,983
India	64,705,022	64,705,022	-
Philippines	60,613,351	51,931,062	8,682,289
Hong Kong	39,937,944	30,286,900	9,651,044
New Zealand	37,803,234	27,963,614	9,839,620
United Kingdom	33,891,384	33,856,221	35,163
Canada	33,078,823	26,112,041	6,966,782
France	29,594,184	29,439,048	155,136
Malaysia	22,981,512	22,897,831	83,681
Italy	20,775,076	20,666,686	108,390
Sweden	20,569,024	544,024	20,025,000
Pacific Islands (Trust Territory) 1/	15,300,949	409,506	14,891,443
West Germany	11,844,510	11,840,735	3,775
Argentina	10,301,892	10,301,892	-
Switzerland & Liechtenstein .	10,020,590	10,005,511	15,079
Netherlands Antilles	8,835,949	8,835,949	-
Venezuela	8,296,371	673,372	7,622,999
Brunei	7,209,985	-	7,209,985
French Pacific Islands	6,820,092	295,942	6,524,150

1/ The country grouping of Trust Territory of the Pacific Islands became two separate groups, the Pacific Islands (Trust Territory) consisting of the Caroline and Marshall Islands, and the Northern Marianas Islands. Data include the former Trust Territory of the Pacific Islands and the new Pacific Islands (Trust Territory).

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1985, A Statistical Digest, International Business Series No. 45 (August 1986), pp. 2-4.

Table 696.-- IMPORTS AND EXPORTS OF PETROLEUM, NATURAL GAS, AND PRODUCTS THEREOF THROUGH THE HONOLULU CUSTOMS DISTRICT, FOR LEADING COUNTRIES OF ORIGIN OR DESTINATION: 1985

[See headnote to table 691]

Country	Dollars
IMPORTS	
All countries	579,137,759
Indonesia	284,888,163
Australia	171,859,307
India	63,335,765
Malaysia	21,777,605
Argentina	10,292,142
Netherlands Antilles	8,835,949
Canada	7,171,960
Turkey	3,666,413
Brazil	3,427,200
EXPORTS	
All countries	106,069,543
Japan	29,155,791
Singapore	20,652,879
Taiwan (Republic of China)	19,835,533
Republic of Korea	9,600,155
Australia	7,522,510
Hong Kong	6,336,322
French Pacific Islands	6,068,986
Philippines	5,120,527
Papua New Guinea	1,759,643

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1985, A Statistical Digest (International Business Series No. 45, August 1986), pp. 20 and 32.

Table 697.-- IMPORTS OF MONOLITHIC INTEGRATED CIRCUITS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN: 1985

[See headnote to table 691]

Country	Dollars
All countries	314,957,587
Singapore	202,430,415
Taiwan (Republic of China)	62,684,323
Philippines	38,187,434
Japan	10,922,627
Republic of Korea	680,610
Malaysia	43,245
Hong Kong	4,792
Kenya	4,141

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1985, A Statistical Digest (International Business Series No. 45, August 1986), p. 7.

Table 698.-- EXPORTS OF AIRCRAFT AND SPACECRAFT, FOR LEADING COUNTRIES OF DESTINATION: 1985

[See headnote to table 691]

Country	Dollars
All countries	182,420,783
People's Republic of China	66,112,459
Republic of Korea	47,726,851
Japan	24,474,467
Sweden	20,016,000
Australia	12,537,464
Brunei	7,207,310
New Zealand	2,076,285

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1985, A Statistical Digest (International Business Series No. 45, August 1986), p. 19.

Table 699.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COMMODITY CLASSIFICATION: 1985

[See headnote to table 691]

Commodity	Imports for consumption	Exports of domestic mdse.
All commodities	1,756,256,046	388,837,228
Animal and vegetable products	92,500,420	25,307,042
Wood and paper; printed matter	21,497,891	4,118,301
Textile fibers and products	38,098,038	802,543
Chemicals and related products	595,198,700	111,230,794
Petroleum, natural gas, and products derived therefrom	579,137,759	106,069,543
Other chemicals and related products	16,060,941	5,161,251
Nonmetallic minerals and products	23,748,482	8,297,624
Metals and metal products	702,374,581	219,638,394
Integrated circuits	314,991,821	79,897
Motor vehicles	254,021,078	589,086
Aircraft and spacecraft	8,922,965	182,420,783
Other metals and metal products	124,438,717	36,548,628
Specified miscellaneous products	151,479,798	15,694,072
Special classification provisions	131,358,136	3,748,458

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, Hawaii's Foreign Trade 1985, A Statistical Digest (International Business Series No. 45, August 1986), pp. 14-18 and 26-31.

Table 700.-- FOREIGN-TRADE ZONE NO. 9 OPERATIONS: 1968 TO 1986

[Years ended June 30 through 1976 and September 30 thereafter.
Foreign-Trade Zone No. 9 began operation June 15, 1966]

Fiscal years	Firms using zone	User employment at zone 1/	Value of merchandise ($1,000)		Revenue (dollars)	Expenditures (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750
1982 ..	178	263	52,483	11,957	744,741	780,932
1983 ..	190	203	48,312	11,839	965,590	1,032,675
1984 ..	198	224	46,312	10,596	1,107,107	996,236
1985 ..	229	218	39,376	6,196	1,122,722	1,058,802
1986 ..	302	200	53,890	6,416	1,282,855	1,101,505

1/ For firms occupying facilities on a continuing basis only.
Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 701.-- FOREIGN-TRADE SUBZONE OPERATIONS: 1972 TO 1986

[Years ended June 30 through 1976 and September 30 thereafter. Foreign-Trade Subzone No. 9-A began operation April 7, 1972; 9-B, Jan. 30, 1986; 9-C, Aug. 1, 1985; 9-D, April 30, 1986]

Fiscal years	User employment at subzone 1/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value ($1,000)	Quantity (1,000 short tons)	Value ($1,000)
SUBZONE NO. 9-A					
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084
1982 ..	203	6,781.3	1,758,180	1,952.9	531,437
1983 ..	203	6,944.5	1,491,063	2,047.6	461,298
1984 ..	205	7,405.6	1,348,745	1,995.5	363,698
1985 ..	212	7,680.5	1,450,466	2,075.3	402,568
1986 ..	210	7,717.5	922,289	1,560.0	198,368
SUBZONE NO. 9-B					
1986 ..	6	(NA)	448	(NA)	220
SUBZONE NO. 9-C					
1986 ..	2,400	(NA)	300,844	(NA)	16,205
SUBZONE NO. 9-D					
1986 ..	1,000	(NA)	23,646	(NA)	124

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 702.-- FOREIGN DIRECT INVESTMENT IN HAWAII: 1980 TO 1984

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

Subject	1980	1981	1982	1983	1984
Number of affiliates:					
With property, plant, and equipment	179	(NA)	(NA)	(NA)	(NA)
With employment	173	(NA)	(NA)	(NA)	(NA)
Gross book value of property, plant, and equipment of affiliates (million dollars)	1,020	(D)	(D)	(D)	1,691
Japanese-owned	565	(D)	(D)	(D)	(NA)
Others	455	(D)	(D)	(D)	(NA)
Employment, by country of ultimate beneficial owner	15,509	16,996	16,370	16,251	16,538
Canada	745	676	599	576	505
European countries	1,498	1,555	2,154	1,724	2,232
Japan	9,034	9,097	9,339	9,695	9,820
Other countries	4,232	5,668	4,278	4,256	3,981
Wages and salaries of affiliates (million dollars)	173	(NA)	(NA)	(NA)	(NA)
Japanese-owned	83	(NA)	(NA)	(NA)	(NA)
Others	90	(NA)	(NA)	(NA)	(NA)
Land owned (1,000 acres)	96	111	112	102	51

D Withheld to avoid disclosure of data for individual companies.

NA Not available.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Foreign Direct Investment in the United States, 1980 (October 1983), pp. 74, 84, 119, 122, and 127; "U.S. Affiliates of Foreign Companies: Operations in 1981," Survey of Current Business, November 1983, pp. 19-34; "U.S. Affiliates of Foreign Companies: Operations in 1982," Survey of Current Business, December 1984, pp. 26-40; "U.S. Affiliates of Foreign Companies: Operations in 1983," Survey of Current Business, November 1985, pp. 36-50; and "U.S. Affiliates of Foreign Companies: Operations in 1984," Survey of Current Business, October 1986, pp. 31-45.

Table 703.-- EMPLOYMENT AND SHIPMENTS RELATED TO MANUFACTURED EXPORTS: 1983

Subject	1983
Employment related to manufactured exports	4,900
Manufacturing industries	900
Direct export related	500
Supporting exports	400
Nonmanufacturing industries	4,000
Trade	3,100
Other	900
Value of export related manufacturers' shipments 1/	265.2
Percent of total manufacturers' shipments	7.7
Direct exports 1/	172.8
Supporting exports 1/	92.4

1/ Million dollars.

Source: U.S. Bureau of the Census, 1983 Annual Survey of Manufacturers, Origin of Exports of Manufactured Products, M83(AS)-5 (March 1986), tables 2 and 3.

Table 704.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1981 AND 1982

[This survey was discontinued after 1982]

Year	Firms	Establishments	Employment	Payroll, annual ($1,000)
1981	97	276	12,495	175,501
1982	100	276	14,036	198,470

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1981, Series FOF, No. 5 (March 1983) and Selected Characteristics of Foreign-Owned U.S. Firms: 1982, Series FOF, No. 6 (April 1984).

Table 705.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1985

Subject	Amount
Parcels owned by foreigners	47
Individuals	14
Organizations	33
Acres owned by foreigners	52,993
Percent of all privately owned agricultural land 1/	2.7
Individuals	494
Organizations	52,499
Value of foreign-owned agricultural land ($1,000):	
At time of acquisition	51,294
Adjusted current value	47,047

1/ The percent for Hawaii ranked third among the 50 States, exceeded only by Maine (10.1 percent) and Oregon (3.5), and well above the national percentage (0.9).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1985 (Staff Report No. AGES 860327, April 1986), pp. 6, 9, and 12.

Table 706.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND JAPANESE: ANNUALLY, 1959 TO 1986

[In thousands of dollars. Estimates based on incomplete reporting]

Year	Total foreign investments	Investments by Japanese
Total completed	2,447,534	1,736,058
1970 and earlier years	48,770	44,970
1971-1975	452,069	327,869
1976	120,740	55,940
1977	32,200	17,800
1978	44,500	13,500
1979	297,470	165,250
1980	124,485	80,100
1981	108,775	70,800
1982	629,880	489,880
1983	141,176	134,900
1984	202,600	112,000
1985	77,374	60,254
1986, to September	167,495	162,795
Future completions	69,514	52,514

Source follows next table.

Table 707.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR AND TYPE OF INVESTMENT: CUMULATIVE, 1959 TO 1986

[In thousands of dollars. Estimates based on incomplete reporting]

Country of investor and type of investment	Amount
Cumulative total 1/	2,447,534
Country of investor:	
Australia	79,900
Bermuda	500
British West Indies	575
Canada	154,370
France	15,900
Hong Kong	229,695
Japan	1,736,058
Korea	11,550
Netherlands	16,200
Netherlands Antilles	17,735
New Zealand	5,000
Singapore	(NA)
Taiwan	13,500
United Arab Emirates	(NA)
United Kingdom	164,051
Vanuatu	2,500
Type of investment:	
Agriculture	1,100
Banks	35,019
Condominiums	500,450
Golf courses	84,300
Hotels	698,600
Manufacturing	18,030
Other real estate	839,550
Restaurants	15,325
Retailing and wholesaling	65,465
Science and education	51,001
Miscellaneous	138,694

NA Not available.

1/ Excludes $69.5 million in projects to be completed after September 1986.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, A Listing of Foreign Investments in Hawaii (International Business Series No. 46, September 4, 1986), pp. 51-53.

Section 25

COMPARATIVE NATIONAL STATISTICS

This section presents statistics for the United States as a whole, the corresponding figures for Hawaii, and the rank of Hawaii among the 50 states and District of Columbia. The 12 tables in this section contain 379 series, thought to include the most significant or frequently requested types of data for which national comparisons are available. Virtually all of the major subject-matter areas covered in the first 24 sections of the Data Book are represented. The comparisons include totals, averages, medians, percentages, and rates.

Ranked against other jurisdictions, Hawaii was highest in 21 comparisons, second highest in 16, lowest in 6, and second lowest in 15. Hawaii ranked 39th in population, first in life expectancy, 11th in public school pupil-teacher ratio, 43rd in homicide rate, 47th in land area, 17th in percent of land owned by the Federal government, 26th in visitor expenditures, 47th in votes cast as a percent of voting-age population, 13th in State and local government expenditures per capita, 8th in armed forces, 19th in public aid recipients relative to population, 11th in female labor force participation rate, 19th in per capita disposable personal income, first in family living costs (based on data for 25 metropolitan areas), 41st in bank deposits, 47th in commercial radio stations, first in fuel and electricity prices per Btu, 50th in highway mileage, first in volume of crop marketings for pineapple, macadamia nuts, and coffee, 20th in value of fish catch, 49th in percent of housing units owner occupied, second in median gross rent, 44th in value added by manufacture, 12th in retail sales per capita, 9th in hotel receipts, and 8th in percent of business establishments foreign owned.

High ranks do not necessarily mean favorable scores, nor low ranks unfavorable scores. Hawaii was first (highest) in expectation of life at birth and last (lowest) in infant mortality rate, for example, but both were highly desirable positions.

When Hawaii shared the same rank with other jurisdictions, the next lower rank (or ranks) was omitted. Although most comparisons were for 51 areas (50 states and the District of Columbia), some ranked Honolulu against other large metropolitan areas, and a few were based on other groupings. Variations in the comparison groups are noted in the stubs.

Some of the values shown for Hawaii in this section differ from the corresponding figures given elsewhere in the Data Book, because of differences in sources or subsequent revisions in data.

This section was taken entirely from DPED Statistical Report 193, "Hawaii's Ranking, 1986," which contains detailed source citations for all series. Persons interested in data and ranks for other states should consult the Statistical Abstract of the United States: 1986, Appendix V, and State and Metropolitan Area Data Book, 1986, table 1. Historical data on state rankings are not readily available for most series.

Table 708.-- POPULATION, VITAL STATISTICS, AND HEALTH

Subject	United States	Hawaii	
		Number	Rank
Resident population, 1985 (1,000)	238,740	1,054	39
Percent change in resident population, 1980-1985	5.4	9.2	11
Resident population per square mile, 1985	67	164	14
Net migration, 1980-1985 (1,000)	3,530	19	20
Net migration, percent of 1980 population	1.6	2.0	16
Metropolitan area population, 1984 (1,000)	180,069	805	35
Percent of State population in metropolitan area	76.2	77.5	18
Males per 100 females, 1980	94.5	105.2	2
Residents 65 years old and over, percent of pop., 1984	11.9	9.0	47
Median age of population, 1980 (years)	30	28	42
White population, percent of total, 1980	83.1	33.0	50
Asian and Pacific Islanders, percent of population, 1980	4.5	64.9	1
Foreign born, percent of population, 1980	6.2	14.2	2
Language other than English spoken at home, percent of persons 5 years old and over, 1980	11.0	25.8	2
Married males 15 years old and over, 1980 (percent)	62.0	56.3	50
Married females 15 years old and over, 1980 (percent)	57.4	58.3	29
Households, 1984 (1,000)	86,019	324	43
Persons per household, 1980	2.75	3.15	2
One-person households, percent of all households, 1980	22.7	17.1	51
Births, 1983 (1,000)	3,639	19	38
Births per 1,000 population	15.5	18.8	6
Percent of births to mothers under 20 years old, 1982	14.2	10.9	42
Deaths, 1982 (1,000)	1,975	5	46
Deaths per 1,000 population	8.5	5.2	50
Legal abortions, 1982 (1,000)	1,573.9	9.1	33
Abortions per 1,000 women 15-44 years of age	28.8	37.9	5
Infant mortality per 1,000 births	11.5	8.8	51
Cardiovascular disease deaths 100,000 pop., 1982	417.6	216.9	50
Cancer deaths per 100,000 population, 1982	187.2	125.8	47
Accidental deaths per 100,000 pop., 1982	40.6	32.5	47
Average lifetime, 1979-1981 (years)	73.88	77.02	1
Marriages, 1983 (1,000)	2,444	14	38
Divorces, 1983 (1,000)	1,179.0	4.6	40
Divorces per 1,000 population	5.0	4.6	32
Personal health care expend. per capita, 1982 (dollars)	1,220	1,228	17
Hospital beds per 100,000 population, 1983	577	403	47
Average daily hospital room charge, 1983 (dollars)	195	223	7
Average daily room cost to hospital, 1983 (dollars)	369	358	22
Nursing home beds per 1,000 pop. over 64 yrs. old, 1982	54.7	22.0	50
Physicians per 100,000 population, 1983	191	207	9
Dentists per 100,000 population, 1983	54.8	71.9	4
Registered nurses per 100,000 population, 1983	600	587	27

Table 709.-- EDUCATION, LAW ENFORCEMENT, COURTS, AND PRISONS

Subject	United States	Hawaii	
		Number	Rank
Public elementary and secondary schools, 1982-1983	84,740	232	49
Private elementary and secondary schools, 1980-1981	20,764	114	34
Public school enrollment, 1983-1984 (1,000)	39,401	162	40
Private school enrollment, 1980-1981 (1,000)	4,962	37	31
Public school teachers, 1983-1984 (1,000)	2,135.2	8.1	42
Private school teachers, 1980-1981 (1,000)	277.4	2.1	31
Percent change in public school enrollment, 1975-1984	-12.7	-8.4	22
Pupil-teacher ratio in public schools, 1983-1984	18.45	20.06	11
Public school expenditures, 1984-1985 (million dollars)	138,117	578	42
Average per student in daily attendance (dollars)	3,429	3,596	17
Average per capita (dollars)	585	556	28
Public high school graduates, 1985 (1,000)	2,483.9	10.1	43
Public high school graduation rate, percent of freshmen in 1979 graduating in 1983	73.9	82.2	13
Average annual public teacher's salary, 1985 (dollars)	23,582	24,628	13
Higher education enrollment, 1983-1984 (1,000)	12,465	52	42
Current fund expenditures for public institutions of higher education, 1981-1982 (million dollars)	46,219	242	38
Expenditures per full-time equivalent student (dol.)	6,816	7,043	26
Bachelor's degree conferred, 1981-1982	953,000	3,200	46
Master's degree conferred, 1981-1982	295,500	1,100	40
Doctorate degree conferred, 1981-1982	32,707	111	40
Percent of population 25 years old and over completing -			
At least 4 years of high school, 1980	66.5	73.8	9
At least 4 years of college, 1980	16.3	20.3	5
Volumes in the public library system, 51 systems, inc. the Hawaii State Library System, 1982 (1,000)	(X)	2,443	14
Volumes in college and university libraries, 50 libraries inc. the University of Hawaii at Manoa, 1981-1982	(X)	1,947	36
Offenses known to the police per 100,000 pop., 1984	5,031	5,484	14
Larceny-theft	2,791	3,688	6
Burglary	1,264	1,214	17
Motor vehicle theft	437	350	21
Murder	7.9	3.3	43
Marijuana harvest, 1984 (billion dollars)	16.6	1.0	2
Eradicated marijuana plants, 1983 (1,000)	3,794	579	2
Prisoners per 100,000 population, 1984	192.3	163.1	25
Adults under correctional supervision per 10,000 adults, 1983	143	112	20
Public safety expenditures per capita, 1983 (dollars)	148.4	165.6	14
Police employment per 10,000 population, October 1983	25.9	26.5	16
Corrections employment per 10,000 pop., October 1983	12.7	8.8	39
Population per attorney, 1980	418	476	27

X Not applicable.

Table 710.-- GEOGRAPHY, ENVIRONMENT, LAND USE, AND LAND OWNERSHIP

Subject	United States	Hawaii	
		Number	Rank
Year admitted to statehood, 50 states	(X)	1959	50
General coastline (statute miles)	12,383	750	4
Land area, 1980 (1,000 square miles)	3,539.3	6.4	47
Highest point (feet) (U.S.: McKinley; HI: Mauna Kea)	20,320	13,796	6
Approximate mean elevation (feet)	2,500	3,030	10
Water withdrawal per capita, 1980 (gallons per day)	1,976	2,591	17
Ground water withdrawal, percent of daily total, 1980	19.9	32.0	11
Air pollutant emissions, 1982 (1,000 tons):			
Carbon monoxide	88,440	342	43
Nitrogen oxides	22,929	63	47
Particulates	40,661	55	48
Temperature data, U.S. city average and 50 major cities including Honolulu, 1941-1970:			
Average annual temperature (degrees Fahrenheit)	56.2	76.1	1
Average annual days of sunshine	99	92	35
Temperature of record, 50 states, 1941-1970:			
Highest temperature (degrees Fahrenheit)	114	100	49
Lowest temperature (degrees Fahrenheit)	-40	14	50
Average annual rainfall, U.S. city average and 50 major cities including Honolulu, 1941-1970 (inches)	36.66	24.06	41
Land owned by Federal government, percent of total land area, 1982	31.7	8.2	17
Urban land acreage per capita, 1980	0.28	0.21	46

X Not applicable.

Table 711.-- RECREATION, TOURISM, AND ELECTIONS

Subject	United States	Hawaii	
		Number	Rank
Foreign visitor arrivals, 1983 (1,000)	21,707	1,423	5
Visitor expenditures, 1983 (million dollars)	370,000	4,290	26
Foreign visitor expenditures, 1983 (million dollars)	13,772	1,172	4
Economic impact of foreign visitors, 1983:			
Payroll (million dollars)	3,066	305	4
Employment	312,800	28,800	4
Tax revenues (million dollars)	1,647	127	4
Domestic visitor expenditures, 1984 (million dollars)	222,955	2,517	27
Economic impact of domestic visitors, 1984:			
Business receipts (million dollars)	215,978	2,445	27
Payroll (million dollars)	47,195	605	24
Employment (1,000)	4,493.0	52.6	28
Tax revenues (million dollars)	27,450	252	28
State travel budgets, 50 states, FY 1985-1986 ($1,000)	215,633	6,564	9
National park system acreage, 1984 (1,000 acres)	74,898	245	17
State park and recreation acreage, 1983 (1,000 acres)	9,936	21	46
Fishing characteristics of persons 16 years old and over, by State which activity occurred in, 1980:			
Fishing participants (1,000)	42,059	244	43
Days of participation (million days)	848.9	3.3	45
Travel, food, lodging, and fee expend. (mil. dol.)	7,117	50	40
Hunting characteristics of persons 16 years old and over, by State which activity occurred in, 1980:			
Hunting participants (1,000)	17,444	28	50
Days of participation (1,000 days)	329,517	342	50
Travel, food, lodging, and fee expend. (mil. dol.)	2,349	4	49
Passports issued, 1983 (1,000)	4,121.5	37.6	27
State appropriations per capita for State arts agencies, 1985 (dollars)	0.70	1.56	5
Voting-age population, 1984 (1,000)	173,936	755	39
Popular vote cast for President, 1984 (1,000)	92,653	336	43
Votes cast, percent of voting-age population	53.3	44.5	47
Percent voting for Republican party	58.8	55.1	41
Votes cast for governor, latest election (1,000)	(X)	312	45
Percent voting for Democratic party	(X)	45.2	42
Number of local governments, 1982	82,290	18	50

X Not applicable.

Table 712.-- GOVERNMENT FINANCES AND EMPLOYMENT AND NATIONAL DEFENSE

Subject	United States	Hawaii	
		Number	Rank
State and local government revenues, FY 1984 (mil. dol.)	652,114	3,161	39
Revenues per capita (dollars)	2,761	3,042	11
Tax collections per capita (dollars)	1,356	1,543	11
State and local government expend., FY 1984 (mil. dol.)	600,576	2,875	40
Expenditures per capita (dollars)	2,543	2,767	13
Capital outlay per capita (dollars)	246	363	8
State and local governments' debt outstanding, end of fiscal year 1984 (million dollars)	505,030	2,862	41
Debt outstanding per capita (dollars)	2,139	2,755	14
State government. tax revenues, 50 states, FY 1985 (million dollars)	214,874	1,363	37
Per capita (dollars)	902	1,293	4
State tax revenues per capita, selected taxes of 50 states, fiscal year 1985 (million dollars):			
State general sales	291	649	1
Individual income	267	407	8
State general sales tax rate, September 1, 1984 (pct.)	(X)	4	26
Property taxes per capita, 1983-1984 (dollars)	408	278	37
Residential property tax, 51 cities inc. Honolulu, 1984:			
Effective tax rate per $100	(X)	0.61	50
Assessment level (percent)	(X)	90	11
State & local government employment, Oct. 1985 (1,000)	13,669	60	40
Employment per 10,000 population, full-time equiv.	443	453	24
Monthly earnings of full-time employees (dollars)	1,885	1,816	22
Federal gov't. direct expenditures, FY 1984 (mil. dol.)	724,749	4,232	14
Defense expenditures (million dollars)	209,630	2,324	26
Nondefense expenditures (million dollars)	515,119	1,908	44
Expenditures per capita (dollars)	3,040	4,073	6
Federal income and employment tax receipts, 1984 (million dollars)	562,102	1,745	43
Tax burden in 50 states, percent of personal income	18.6	12.9	35
Number of Federal individual income tax returns, 1983 (1,000)	96,294	448	39
Taxes paid per return with tax liability (dollars)	3,536	3,036	32
Defense contracts awarded, FY 1984 (million dollars)	124,015	537	33
Federal employees, civilian & military, FY 1983 (1,000)	5,602	101	21
Per 10,000 population	239	988	2
Federal defense civilian employment, 1983-1984 (1,000)	942.0	20.8	15
Military personnel, 1983-1984 (1,000)	1,358.7	45.3	8
Living veterans, 1984 (1,000)	27,899	97	45
Retired military personnel, September 30, 1985 (1,000)	1,513.1	11.2	34

X Not applicable.

Table 713.-- SOCIAL INSURANCE, HUMAN SERVICES, LABOR FORCE, EMPLOYMENT, AND EARNINGS

Subject	United States	Hawaii	
		Number	Rank
Payments for Aid to Families with Dependent Children, 1983 (mil. dol.)	13,766	86	27
Payments for Supplemental Security Income, 1984 (mil. dol.)	10,072	28	39
Public aid recipients, percent of population, 1984	6.2	6.0	19
Food stamp recipients per 10,000 population, 1984	835	962	16
Social Security recipients per 10,000 population, 1984	1,508	1,203	46
Aid to Families with Dependent Children, percent of persons under 18 years, 1984	11.2	12.2	12
Quality of life score, 329 areas inc. Honolulu, 1985	(NT)	1,133	61
Civilian labor force, 1984 (1,000)	113,544	473	43
Civilian employment persons, 1984 (1,000)	105,005	446	42
Percent change in civilian employment, 1980-1984	5.7	6.4	22
Civilian employment, 1984 (percent of civilian noninstitutional persons 16 years old and over)	59.5	61.8	23
Unemployed persons, 1984 (1,000)	8,539	27	42
Unemployment rate, 1984 (pct. of civilian labor force)	7.5	5.6	39
Male unemployment rate	7.4	5.9	32
Female unemployment rate	7.6	5.3	42
Labor force participation rate, 1984 (pct. of civilian noninstitutional persons 16 years old and over)	64.4	65.5	28
Male labor force participation rate	76.4	73.5	47
Female labor force participation rate	53.6	58.1	11
Nonagricultural employment, 1984 (1,000)	94,461	413	42
Percent manufacturing, 1984	20.6	5.3	47
Percent services, 1984	22.0	26.3	4
Civilian employment by selected occupations, 1984:			
Percent managerial and professional occupations	23.7	23.3	21
Percent service occupations	13.5	18.9	3
Percent sales occupations	12.0	13.3	5
Average annual wages, workers covered by State unemployment compensation, 1984 (dollars)	18,350	16,671	31
Average annual wages, selected industries, 1983 (dol.):			
Construction industry	20,492	25,443	2
Manufacturing industry	21,469	16,632	47
Retail trade	10,007	9,791	21
Services	15,351	14,137	25
Workers' compensation payments, 1983 (million dollars)	17,533	105	35
Labor union membership, 50 states, 1980 (1,000)	22,811	113	35
Percent of employment	25.2	27.9	13

NT Not tabulated.

Table 714.-- INCOME, EXPENDITURES, WEALTH, AND PRICES

Subject	United States	Hawaii	
		Number	Rank
Gross state product, 1977 (million dollars)	(X)	8,578	39
Percent change in personal income, 1984-1985	6.7	6.3	25
Per capita personal income, 1985 (dollars)	13,867	13,814	18
Per capita disposable personal income, 1985 (dollars)	11,834	11,963	19
Per capita personal income, 2000 (1972 dollars)	7,369	7,461	18
Percent change in farm earnings, 50 states, 1983-1984	68.4	12.9	34
Median income, 1979 (dollars):			
Families	19,917	22,750	5
Households	16,841	20,473	2
Persons below U.S. poverty threshhold, 1979 (percent of noninstitutional population 16 years and older)	12.4	9.9	40
Families below U.S. poverty threshhold, 1979 (percent of noninstitutional population 16 years and older)	9.6	7.8	34
Millionaires per 100,000 population, 50 states, 1982	175.9	80.2	43
Percent change in consumer price index for all urban consumers (CPI-U), U.S. city ave. and 28 areas including Honolulu SMSA:			
1984 to 1985	3.6	3.3	18
1967 to 1985	222.2	194.1	26
Four-person family budgets, U.S. city average and 25 areas including Honolulu SMSA, autumn 1981 (dollars):			
Lower budget	15,323	20,319	2
Intermediate budget	25,407	31,893	1
Higher budget	38,060	50,317	1

X Not applicable.

Table 715.-- BANKING, INSURANCE, BUSINESS ENTERPRISE, AND COMMUNICATIONS

Subject	United States	Hawaii	
		Number	Rank
Commercial bank deposits, end of 1984 (billion dollars)	1,633.4	7.0	41
Per capita, 1984 (dollars)	6,917	6,769	19
Savings and loan institution deposits, end of 1984 (billion dollars)	681.6	2.5	38
Shareowners of public corporations, mid-1985 (1,000)	47,040	256	36
Percent of household population	20.1	24.8	7
Life insurance in force per family, 1984 (dollars)	58,700	72,500	5
Private nonfarm establishments, 1982 (1,000)	4,634.0	21.7	40
Percent with 100 employees or more	2.22	1.82	38
Total industrial and commercial businesses (exc. real estate and finance companies), 1983 (1,000)	2,851.2	10.6	44
New corporations, 1983 (1,000)	600.4	2.5	40
Black-owned business firms, 1982	339,239	330	41
Women-owned business firms, 50 states, 1982 (1,000)	2,884.5	16.8	38
Business failures, industrial and commercial firms (exc. real estate and finance companies), 1983	31,334	145	37
Telephone access lines, December 31, 1985 (1,000)	118,275	479	43
Percent of housing units with telephones, 1980	93.0	95.1	15
Commercial radio broadcast stations, January 10, 1985	8,354	39	47
Commercial television broadcast stations, January 10, 1985	887	13	28
Cable television households, percent of television households, July 1985	45.1	65.1	2
Daily newspaper circulation per capita, 1984	0.267	0.248	20

Table 716.-- ENERGY, SCIENCE, AND TRANSPORTATION

Subject	United States	Hawaii	
		Number	Rank
Energy consumption per capita, 1983 (mil. btu.)	301	227	44
Energy expenditures per capita, 1982 (dollars)	1,810	1,999	9
Energy expenditures, percent of personal income, 1981	18.9	19.9	21
Average price for fuels and electricity, 1981 (dollars per million btu.)	7.86	11.78	1
Electricity consumed per residential customer, 1983 (kilowatt-hours)	8,740	6,571	42
Average revenues of electricity sold for residential use, 1983 (cents per kilowatt-hour)	6.83	11.29	1
Price of gas utility for residential use, 1983 (dollars per million btu.)	5.8	17.94	1
Federal obligations for research and development, 1982 (million dollars)	35,262	45	41
Scientists and engineers per 100,000 population, 1982	1,403	1,344	23
Patents issued to U.S. residents, 1963-1985 (1,000)	1,009.8	0.7	49
Highway mileage, 1983 (1,000 miles)	3,879.6	4.3	50
Highway bridges, December 31, 1983	565,591	1,036	46
Licensed drivers per 1,000 population, 1983	659.0	564.8	49
Motor vehicle registrations per 1,000 population, 1983	700.2	605.5	47
Percent change in new automobile registration, 1983-1984	12.1	14.1	14
Highway speed, percent exceeding 55 mph, 50 states, 1983	54.1	36.7	48
Deaths from motor vehicle accidents per 100,000 population, 1982	19.9	15.6	42
Deaths from motor vehicle accidents per 100 million vehicle-miles of travel, 1983	2.58	2.37	32
Commuting to work, 1980:			
Percent of workers using private transportation	84.1	78.5	45
Percent of workers using public transportation	6.4	8.3	7
Mean travel time to work (minutes)	21.6	21.5	16
Ave. price for gasoline, U.S. city average and 28 areas including Honolulu SMSA, June 1986 (cents per gal.)	92.7	120.2	1
State gasoline tax, August 1985 (cents per gal.)	12.40	11.0	34
Airport facilities, 1983	15,966	51	48
Air operations (takeoffs and landings), 1983 (1,000)	53,445	708	25
Air passengers, 1983 (1,000)	301,348	8,291	10
Air freight and mail (1,000 tons)	3,785.7	111.8	10
General aviation, active aircraft, 1983	213,293	381	50
Active pilots, 1983	699,546	3,224	44
Numbered vessels (State-registered), 1985 (1,000)	9,387.6	13.1	49
Boating accidents, 1985	6,220	41	39
Persons killed	1,110	5	41

Table 717.-- AGRICULTURE, FOREST, FISHERIES, AND MINING

[Ranking among 50 states]

Subject	United States	Hawaii	
		Number	Rank
Farm population, percent of total population, 1980	2.48	0.47	45
Farms, 1985 (1,000)	2,285	5	44
Land in farms, 1985 (million acres)	1,016	2	41
Acreage per farm, 1985 (acres)	445	400	19
Acreage, individual or family farms, pct. of farms, 1982	65.1	24.6	49
Value of farm land and buildings, 1982 (million dollars)	774,158	3,575	41
Average value per farm ($1,000)	345.9	778.5	3
Average value per acre (dollars)	784	1,826	9
Cash receipts of farms, 1984 (million dollars)	141,835	617	37
Value of products sold per farm, 1982 ($1,000)	58.9	121.6	3
Farm debt-to-asset ratio, 1984 (percent)	22.2	7.5	50
Net farm income-to-debt ratio, 1984 (percent)	12.6	74.3	2
Women farm operators, 1982	121,599	615	39
Acreage in harvested crop, 1982 (1,000 acres)	326,306	156	48
Vegetables	3,330.6	4.7	39
Sugarcane, for sugar	713.1	89.7	3
Pineapple	23.1	23.1	1
Macadamia nuts	15.7	15.5	1
Bananas	1.1	1.1	1
Value of crop sales, 1982 (million dollars)	62,256	456	35
Nursery and greenhouse products ($1,000)	3,822	36	26
Volume of crop marketings, 1982:			
Sugarcane, for sugar (1,000 tons)	27,902	8,950	2
Pineapple, harvested (tons)	627	627	1
Macadamia nuts (1,000 lb.)	35,648	35,595	1
Taro (1,000 lb.)	6,386	3,360	1
Coffee, parchment (1,000 lb.)	1,806	1,806	1
Value of livestock and poultry sales, 1982 (mil. dol.)	69,644	103	47
Cattle and calves	31,635	45	41
Dairy products	16,320	24	45
Poultry and poultry products	9,797	22	38
Hogs and pigs	9,868	9	36
Hired farm labor, 1982 (1,000)	4,856	17	42
Forest land, 1977 (1,000 acres)	736,558	1,986	41
Commercial timberland, 1977 (1,000 acres)	482,486	948	45
Sawtimber net volume, 1977 (tril. bd. ft.)	2,578.9	1.0	48
Commercial fish catch, preliminary 1983 (million lb.)	6,439	29	18
Value of fish catch, preliminary 1983 (million dollars)	2,355	18	20
Mineral industry establishments, 1982	73,005	12	50
Value of mineral shipments & receipts, 1982 (mil. dol.)	250,000	13	47
Mineral production value, 1982 (million dollars)	179,086	47	43
Value added in mining, 1982 (million dollars)	188,056	10	47
Mineral industry employees, 1982 (1,000)	1,114.0	0.2	49

Table 718.-- CONSTRUCTION, HOUSING, AND MANUFACTURES

Subject	United States	Hawaii	
		Number	Rank
Private housing units started, 1984 (1,000)	1,747.9	5.3	42
Private hsg. authorized by bldg. permits, 1984 (1,000)	1,642.2	5.4	42
Valuation of units authorized (million dollars)	75,440	324	34
Percent single-family units	54.4	75.7	5
Value of construction contracts, 1984 (million dollars)	209,861	881	40
Construction industry establishments, 1982 (1,000)	1,389.3	4.3	49
With payroll	456.7	1.9	46
Construction business receipts, 1982 (million dollars)	365,421	2,032	37
Value added in construction, 1982 (million dollars)	145,965	855	37
Construction industry employees, 1982 (1,000)	4,275.1	18.7	41
Construction workers	3,453.2	14.0	42
Average payroll per employee (dollars)	18,401	21,949	5
Housing units, 1980 (1,000)	88,411	334	43
Percent change in housing units, 1970-1980	28.7	54.4	9
Year-round housing units, 1980 (1,000)	86,693	332	43
One unit at address (percent)	66.0	51.7	49
Median rooms per unit	5.1	4.4	50
Percent vacant	7.3	11.5	3
Occupied year-round housing units, 1980 (1,000)	80,390	294	43
With 1.01 or more persons per room (percent)	4.5	15.3	1
Percent owner-occupied units	64.4	51.7	49
Condominium housing, 1980 (1,000)	2,253	74	6
Percent of total housing units	2.5	22.2	1
Median value of owner-occupied units (dollars)	59,100	99,000	1
Median value of owner-occupied units, 1980 ($1,000)	47.2	118.1	1
Median monthly homeowner costs, 1980 (dollars)	366	463	2
Median gross rent of renter-occupied units, 1980 (dol.)	243	311	2
Air-conditioning in homes, percent of year-round housing units, 1980	55.0	18.1	47
Manufacturing establishments, 1982	358,061	967	44
Value of manufacturing shipments, 1983 (billion dollars)	2,055.0	3.4	45
Value added by manufacture, 1983 (million dollars)	882,139	1,046	46
Average per production worker (dollars)	72,375	70,195	29
Value added by manufacture, 1982 (million dollars)	824,118	1,120	44
Average per establishment ($1,000)	2,302	1,158	46
Average per employee (dollars)	43,161	47,441	9
Manufacturers' inventories, end of 1982 (mil. dol.)	306,137	446	45
New capital expend. in manufacturing, 1983 (mil. dol.)	61,924	61	48
Average per production worker (dollars)	5,081	4,067	39
Manufacturing employees, 1983 (1,000)	18,702	23	47
Production workers	12,189	15	47
Average payroll per manufacturing employee, 1982 (dol.)	19,882	15,271	47
Average per production worker	16,514	13,594	43

Table 719.-- DOMESTIC TRADE, SERVICES, AND FOREIGN AND INTERSTATE COMMERCE

Subject	United States	Hawaii	
		Number	Rank
Retail sales, 1984 (billion dollars)	1,296.7	6.4	41
Sales per capita (dollars)	5,491	6,124	12
Retail trade establishments, 1982 (1,000)	1,923.2	8.9	42
Retail sales, 1982 (billion dollars)	1,065.9	5.2	40
Sales per household (dollars)	12,759	16,788	2
Sales per establishment ($1,000)	554.2	582.4	15
Retail sales, selected businesses, 1984 (mil. dol.):			
Automotive dealers	272,823	810	47
Food stores	270,831	1,240	41
General merchandise stores	153,479	823	37
Eating and drinking places	124,035	1,111	32
Gasoline service stations	104,448	421	43
Apparel and accessories stores	66,842	523	33
Beer consumption per capita, 1983 (gal.)	24.24	32.57	4
Wholesale trade establishments, 1982	415,829	1,737	42
Wholesale trade sales, 1982 (billion dollars)	1,997.9	4.1	47
Service establishments, 1982 (1,000)	1,261.7	6.1	40
Receipts of service establishments, 1982 (mil. dol.)	426,982	2,660	34
Receipts per service establishment ($1,000)	338.4	434.3	4
Receipts, selected service businesses, 1982 (mil. dol.):			
Business services	106,866	314	38
Health services	95,610	420	38
Legal services	34,325	173	34
Hotels, motels, and other lodging places	33,215	973	9
Automotive repair, services, and garages	30,695	249	33
Motion pictures services, 1982:			
Production, distribution, and services establishments	7,905	15	34
Receipts (million dollars)	10,117	4	40
Theaters	9,344	34	47
Receipts (million dollars)	3,576	21	36
Foreign-owned business establishments, 1982	48,074	276	34
Percent of total establishments	1.04	1.27	8
Foreign direct investment, inc. U.S. territories and possessions, and offshore sites, 1983:			
Gross book value of property, plant, and equipment (million dollars)	241,600	1,599	39
Employment (1,000)	2,526	16	35
Japan	162	10	4
Land owned (1,000 acres)	14,093	101	31
Export-related manufacturing shipments, 1983 (mil. dol.)	233,524	265	44
Percent of manufacturing shipments	11.3	7.7	45
Export-related manufacturing employment, 1983 (1,000)	2,027.2	0.9	49
Percent of manufacturing employment	10.8	3.9	49

BIBLIOGRAPHY

This volume is the twentieth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was *Statistical Abstract of Hawaii, 1962*, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled *The State of Hawaii Data Book* were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. All of the volumes issued prior to the 1984 edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the *Data Book*, in footnotes and source references to the various tables, and in the underlying reports.

Although most of the series in the *Data Book* are shown only for recent years, earlier figures can usually be found in *Historical Statistics of Hawaii*, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University of Hawaii Press and various book stores for $30.00.

Privately published works of general statistical reference include *Hawaii Facts and Figures* and *All About Business in Hawaii*. *Hawaii Facts and Figures 1986* is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) fifty years ago. Copies of the most recent edition, which appeared early in 1986, are available from the Chamber for $3.00. *All About Business in Hawaii 1986* is the 14th in an annual series published by Crossroads Press, Inc. The current edition costs $3.75.

The County of Hawaii, Department of Research and Development, has published its own *County of Hawaii Data Book 1980*, presenting 264 pages of statistics for the Big Island. This report, dated December 1980, is sold for $7.50 (postpaid, $10.00).

A similar report for Kauai, *1985 Kauai Statistical Review*, is available from the Kauai Office of Economic Development. The most recent edition was released in 1986.

Persons interested in data for other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volumes, the *State and Metropolitan Area Data Book* and *County and City Data Book*. The *Abstract* is an annual publication of the

U.S. Bureau of the Census, initiated in 1878. The current edition is the 106th, dated 1986; copies are available for $27.00 (cloth) or $22.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book, 1986*, also available from GPO, costs $28.00. The *County and City Data Book, 1983* is sold by the same agency for $24.00. All three volumes are on the shelves of major libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1985

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	262	4.00	5.00	6,309.00	1,500
1974	306	292	4.00	5.00	9,330.00	2,000
1975	302	309	4.00	5.00	10,222.95	2,000
1976	312	335	4.00	5.00	9,901.13	2,000
1977	339	374	4.00	5.00	11,990.00	2,000
1978	379	425	4.00	5.00	8,900.00	2,000
1979	447	407	4.00	5.00	10,744.00	2,500
1980	545	496	5.00	10.00	12,335.00	2,500
1981	603	563	5.00	10.00	14,910.00	3,000
1982	596	566	5.00	10.00	15,633.00	3,000
1983	663	622	5.00	10.00	15,875.00	2,500
1984 3/	762	724	5.00	15.00	32,003.00	3,000
1985	662	680	5.00	15.00	19,995.00	3,000

NA Not available.

1/ The 1962 edition was titled *Statistical Abstract of Hawaii, 1962*. In addition, a 41-page, 57-table supplement, *Historical Statistics of Hawaii, 1778-1962*, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, *State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources*, was included with each copy of the regular edition, and was not sold separately.

3/ Two printings.

Source: DPED records.

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